

AMERICAN BEE JOURNAL,

DEVOTED EXCLUSIVELY TO BEE CULTURE.

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Correspondence.

For the American Bee Journal. Western Bee Plants.

DEAR EDITOR:—I believe I promised in a former communication to give you the result of my experiment with the Western bee plants, *Lophanthus Anisatus* and *Cleome Integrifolia*, in this locality. I am not aware of any previous effort to introduce them, though others may have tried and perhaps with better success. As you remember I wrote to H. A. Terry of Crescent City, Iowa, for seed in Sep., '73. The seed came promptly (after your forwarding mine to you) and though then the middle of Dec., was sown immediately; in soil previously well prepared, in drills three feet apart. But being sown so late the plants did not show themselves until the following spring, and then only very sparingly—here and there one—showing that the locality or time of sowing did not suit them.

The, perennial, *Lophanthus Anisatus* only started some dozen plants, with a single stem or stock, which grew 12 to 18 in. high. These produced one or more flower stems somewhat resembling catnip blossoms in appearance, but with the unmistakable anise fragrance. Though continuing in bloom for several weeks I did not notice a single honey bee upon them. The seed ripened in Sep., and was carefully gathered for replanting.

Cleome Integrifolia, the annual, came up much more promptly and evenly. It made a growth of from 2 to 5 feet in height, sending out many branches, and blooming abundantly by the 1st of July. I watched its growth closely but the bees found the bloom first, and began work upon the very first blossoms. They seemed to enjoy it exceedingly. It was no small gratification to see them as if vying with each other for the coveted luxury. For two or three hours each morning its sweet fragrance and the buzzing of the busy little workers were alike interesting. But after the warm sun had evaporated the moisture of the dew, its

agreeable odor disappeared, the bees forsook it and only the dazzling beauty of the finely shaped little shrub or plant, with its multitude of flowers remained. It continued to bloom for six or eight weeks and would probably have continued much longer but for the appearance of a striped little bug, in great numbers, destroying the foliage and in a short time killing the whole plant.

Thus you see our experiment has not been so satisfactory as we might have desired. But it has not left us without a keener interest and hope for another year. We are greatly in need of something to fill a vacancy in the honey harvest during the mid-summer; and we still hope these plants may serve to help us through. Bees have done so poorly here for two or three years that many have become completely discouraged.

Many persons lost all their stocks who had kept bees for over forty years. We kept ours through, by dint of untiring watchfulness and care. Though we had buckwheat and clover we still had to feed on sugar syrup; and frequently united the weak stocks. Late in the spring, however, they began to live up, and when the poplar or tulip bloomed they filled their hives in a little time. We had been so discouraged with long continued failure and losses, as to be taken quite by surprise to find them so heavy, and getting ready for swarming. The extractor was soon put in readiness and used to excellent advantage. Since then the season has been favorable. The autumn harvest from wild flowers has been good. We have had to watch closely to prevent filling up the brood chamber. Empty frames of comb placed in the centre of the hive would be filled with honey almost before the queen could get a chance to deposit eggs in them. It has given us an excellent opportunity of testing the advantages of the moveable frame hive and the extractor.

As beginners in apiculture we have read your JOURNAL with great pleasure and profit. We are quite pleased with the union of the two leading bee journals. You have our best wishes.

New Garden, N. C. A. E. KITCHEN.

For the American Bee Journal.
Packing Bees for Winter.

DEAR EDITOR:—As I and a friend of mine had excellent success last winter in keeping our bees, we will here give the plan we adopted. Suppose you get a box for each hive, four inches larger each way than the hive and 20 in. deep; have a bottom in the large box. Before nailing on the bottom, make an entrance for the bees to fly out, when weather permits. This we call the front of hive. Now on the back, exactly over the entrance, cut a **A** shape, one inch long, and just small enough to keep out mice. Now put in a long box a false bottom, leaving a crack 1 in. wide, from front to rear. Now put in your hive, and by looking through the entrance, you have a passage 1 in. wide from front to rear. Now put a strip of board over this passage, front and back, to prevent packing from closing it up. Then put on quilt, mat, carpet, or anything woolen to keep the bees in, and pack the 4 in. space between outer hive and hive proper, with chaff; stuff it well and fill the box until full; now put on cover to keep out all storms, and keep perfectly dry. Arrange a door step and the job is done.

The bees wintered in those boxes to perfection, and did not dwindle down like those wintered in cellars, but came through the bad weather in May and April without loss, and each one of them contained double the number of bees in April and May, that those did that came out of the cellar. All those swarms were nearly a month earlier than those from the cellar. The reason we think was this: the packing in the large box prevented every little change of weather from being felt by the bees, and consequently the bees never left the hive until it was warm enough for them to fly and regain the hive again; but those wintered in the cellar every time the sun came out and struck it, the hive would be on the wing, and not one-fourth of them ever returned to their hives again.

Probably a great many bee-keepers may think this too much trouble. But when we remember that some swarms will pay us a net profit of \$40 in one season, we think we can well afford about 40 cents for a box; and an half an hour's time to pack them for winter. We manufacture a straw mat for each hive, on the plan recommended in *Gleanings*. We put on next to the bees a woolen blanket and the mat on top. We think the mats O K.

Do not remove the outer box until all

bad spring weather is past. Brother Townley wintered 50 swarms last winter in this way to perfection; he did not use the mats, but woolen and cotton cloths; but the mats I am delighted with.

The past season was a fair one, although we got but little white clover honey; we got plenty of basswood and fall flowers. We started the season with 33 colonies; 20 good, and 13 quite weak ones. We have at this date 54 swarms and 2,200 lbs. of honey in glass boxes, and about 350 lbs. of extracted, besides a considerable amount in large frames, not in marketable shape; but it will come in play next spring in pushing colonies along and starting new ones. J. BUTLER.

Jackson, Mich.

For the American Bee Journal.
This Year's Honey Season.

FRIEND EDITORS:—I wonder what some of your correspondents that report such long honey seasons and large yields of honey would say if they had my location and season? I used my extractor for the first time this year on the 12th of June and on the 24th of June I used it the last time. I took over 200 pounds from ten hives in that short time; one hive giving me sixty pounds. My principal pasturage is white clover, and the extremely dry weather this summer cut that so short, that from the 1st of July till the 1st of August, the bees did not make enough honey to live on. About the first week of August the smart weed, of which there was an abundance, and the buckwheat commenced blooming, and by the middle of the month the bees had so far recruited their hives, that some few in the neighborhood cast swarms, but as flowers can't secret honey out of sunshine, and especially as hot as it was about that time, all hopes of surplus honey, and an increase of stock, had to be abandoned.

I am using the two story Langstroth hive, and Winder's new Queen City extractor; two things that are as essential to success in the bee business, as plenty of flowers, and a favorable season.

I found very good sales for my extracted honey at 40 and 75 cts., when put up in one and two pound jars. To put in the corks I used a lever that was fastened to the wall just the height of the jar. After pressing the tin foil cap on with my hand, as well as I could, I fastened one end of a twine string to the wall and tied the other end around my body; then by sitting down on a chair I could lean forward to give slack enough to the string to give one turn around the neck of the

jar; then by leaning back I could draw the string as tight as I pleased and by rolling the jar towards me I could press the cap on nicely and quickly.

If I had nothing but the black bees to work with, I would quit the business; it almost makes me mad to open a hive of them and have all the little *cowards* run to the bottom of the frames just as if they were crazy. I have one hive that when I examined it for winter, Oct. 1st, I found a nice Italian queen that had been hatched about two weeks and plenty of drones. As she was hatched so late in the season I came to the conclusion she did not become fertilized; but all of my queens quit laying about that time so I had not the opportunity of knowing for a certainty. I will know what is the matter with them next spring.

I very seldom use smoke or a veil to work with my bees (unless they get too awfully cross), for the first is a bother and excites the bees too much, and the latter shuts up the road to my mouth. I would rather take a few stings than to do without eating honey. I use no remedy and can stand 15 or 20 stings a day tolerably well. When I commenced the business one little sting would swell more than a dozen doses now. I suppose "the hair of the dog is good for the bite."

Bethany, Ohio.

W. S. BOYD.

For the American Bee Journal.

Pure Queens Working in Boxes.

MESSERS. EDITORS:—The JOURNAL is just received, and in looking over it I find your correspondent from Binghamton, N. Y., complains that he has not succeeded in getting his pure yellow Italians to work in boxes. The difference in localities may make the difference; but be that what it may, my experience is just the reverse. I have never had any trouble to get the golden beauties into boxes, for the reason that, as he correctly states, they are prolific and fill their hives with bees, and as soon as mine fill up with bees they go at the boxes with a vim not excelled by the best hybrids, which are certainly good for honey—equal to, but not better, than the pure yellow boys. Such queens as he describes would be a very valuable acquisition to any apiarian in any State, that rears queens for sale, as such queens are in demand. I would give two good hybrids, and perhaps two more, for such a queen that will duplicate herself every time in her queen progeny. I have had almost all kinds of queens, and but few such that invariably duplicate themselves in queen progeny. I find it difficult to

get such queens, and have had imported and homebred of the first order, and yet comparatively few such as he describes, the difference, again, probably being in locality. I am satisfied that success in apiculture varies in different localities; so, likewise, do the color of queens, etc.

Melrose, Pa.

R. W. HARRISON.

Old Harry's Report.

DEAR EDITOR—Many bee-keepers have had their say in the journals in regard to wintering; and their theories are as various as their pens. Instinct teaches the bees to build comb and fill it with honey; when circumstances place the comb all ready there, instinct teaches them to fill that comb and keep it full. Now by taking advantage of that instinct we may empty that comb a thousand times and a thousand times will they fill it; but as cold weather has come I will stop on that train of thought.

Soon all will be silent around the hive. Don't let that hum be silence forever; don't let the bees perish in the icy grasp of old boreas. They have worked hard for you the past season, charged you nothing and boarded themselves. Their product has added to your purse. Now study their nature, their habits, and their instinct, and afford them protection accordingly, but as you value their living, don't try to make them conform to some pet theory on ventilation, or some patent clap-trap ("ventilated,") mis-called a beehive, or they will be sure to suffer. They require but little air in the winter and that little they want to keep warm for comfort, now, with your ventilator, you are continually drawing the warm air off, that they much need. As it is continually being drawn off, they must be continually heating more, which exhausts them, and they die before they see the warm sun of spring. They die from over work, trying to keep warm. But it is all right, their tombs are patented, and the "hard winter" is to blame. Then nature teaches them to plaster up every crack and crevice except their passage-way. They do it in order to save as much warmth as possible. If you interfere with this, they will almost be sure to die.

Protect the outside of their home from the cold blast, pelting rain and sleet. Keep their hive dry out side; then let them alone, and they will take care of the inside. Bee-keepers, study the nature and instinct of the bees and conform your operations to that and they will place you on the royal road to wealth.

Honor to whom honor is due. We

would not pluck one leaf from the wreath of any bee-keeper crowned with honor, for any new and beneficial discovery, but when I see that wreath snatched from one and about to be placed upon the brow of another, as I think unfairly, then I will speak. I know neither one personally.

See Bee-keeper's Mag. 1874, Sept. No. page 121. Mr. H. E. Bidwell, last winter made a new discovery! A what! Why he discovered that bees could be put into hot beds and let have cleansing flights at the apiarian's option. Have all bee-keepers got hot beds? the "Old Harry" has none! Some body else made that discovery, long before, on a easier and less expensive plan

See *North American Bee Journal* 1873, April No., page 234, Jewell Davis, of Ill., tell us how to give our bees a cleansing flight at any time. Last winter I made me a flying-box, and tried it. I shall try it this winter, if occasion requires. I have mine made about three feet every way; First I make a solid bottom, then cut a hole in two inches less than my hive. I then nailed up eight posts at each corner; then one inch strip across, from post to post, and covered it with a musquito-bar; when I want to fly a swarm I bring them into a warm room, remove the covering off the hive. Set on a flying box. It would surprise you to see the bees come out into the box and play. Oh! yes; how do I get them to cluster again? They will cluster themselves when they get through, or you can cover all up with a quilt or a blanket; any thing to make it entirely dark. Well, they will soon return to their nests. Reader, who discovered it? Bidwell or Davis?

Leesburg, Ind. HARRY GOODLANDER.

For the American Bee Journal.

What I Have Done.

I went into winter quarters with 850 colonies, about 50 of them, not in very good condition. I lost 48, during winter and spring, and had more than one half weak colonies, the other half was in a medium good condition. I sold and let my girls have 100, and had consequently about 700 left. These were divided into 11 different apiaries and later in the season into 15. They increased to 1,158.

And gave on box honey, net weight lb 14.887
 " " extracted " 10.332

Total.	-	-	-	<u>\$25,219</u>
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This amount was actually shipped and sold to Mrs. I. E. Spauld, honey dealer in New York. I have, besides this, about \$600 of unfinished box honey on hand, previously sold and given away over 1000, total amount 23,919 lb. Or an average of about 21 lb of box honey and 16 lb of extracted. I, however, extracted only from 70 hives, which gave an average of about 147 lb.

Since my white and yellow box honey was sold, delivered at Jefferson station for 25 cts. per pound, extracted only for 12 cts. I cannot see the very great gain, in extracting, when I consider that I had selected the very best stocks for extracting, while there was a very great number of stocks that never gave any box honey, nor could I have extracted much from them.

To me it seems that I can easier raise box honey at 25cts., than extracted for 12, even if this latter could always readily be sold. The honey business in this neighborhood has become very important. I, myself, shipped, including five lots from other beekeepers, two car loads of a gross weight of 42,000lb., and a number of other parties shipped and sold, surely not less than 30,000lb. more. And this was only about half as good and favorable a season than four years ago. But I fear we get overstocked, and unless we sell or spread out much more, our honey yield will diminish. Honey bees are considered very good property and sell readily at full prices, if offered for sale.

Jefferson, Wis.

ADAM GRIMM.

For the American Bee Journal.

My Experience.

I made a visit to G. W. Stineberg, Shreve, Wayne Co., Ohio. Purchased a queen from him that I am very much pleased with, and he gave me an idea to save comb from moth. He says, stretch a wire near the roof of a barn, and there fasten your comb about four inches apart and moths will not interfere. I had been smoking with brimstone, kept in a close box, and soaked them in water, put in extractor, threw the water out and dried in the shade, but still lost some. Stineberg's advice was quite a relief. I have tried it and the short experiment I have had, has proved satisfactory. If the articles, appearing in the JOURNAL, were as freely written, as our conversation generally is when we meet Bee Friends, we would all feel better and derive more benefit from each others experience, and the failures given as freely as the successes. But not long ago a veteran said, it does him good to laugh at the articles of young queen raisers. I think it poor policy while attempting to teach the stuttering child to laugh at it. Why cant we have free exchange of ideas and experiments without snapping, ridiculing, &c.? Who can differ more than the claimed veteran bee-men? Very few will acknowledge failures, except Novice, and he is ridiculed for it. No wonder articles and criticisms appear without signatures.

I. S. MILLER.

I. S. MILLER.

Bucyrus, O.

Annual Meeting of the North American Bee-Keepers' Society.

Pursuant to notice, the above named Society commenced its annual meeting in the hall of the Germania Saving's Bank Pittsburgh, Pa., on Wednesday morning, Nov. 11th, at 10 o'clock. About fifty members were present, which number was increased to seventy-five or eighty by new arrivals in the course of the day.

President Hoagland occupied the chair. Organization for regular business was deferred until afternoon, and the rest of the forenoon occupied in suggestions of topics for discussion, and informal conversation or matters pertaining to the success of the meeting.

Rev. W. F. Clarke moved that a temporary committee of three be appointed by the chair, to prepare business for the session. Carried and W. F. Clarke, H. A. King and Mrs. Tupper were appointed said committee.

A motion was also adopted providing for the appointment of a committee of two, to act with the Secretary, Abner J. Pope, of Indianapolis, in preparing the proceedings of the session for publication.

The meeting then adjourned until half-past one o'clock P. M.

The following abstract of the proceedings is partly made up from the reports of the Pittsburgh daily press, and partly from the notes of our own reporter.

AFTERNOON SESSION.

The Society was called to order by President Hoagland, and the proceedings opened with prayer by the Rev. W. F. Clarke, of Canada, after which the President made the following

OPENING ADDRESS:

Ladies and Gentlemen of the North American Bee-Keepers' Society.

Not being present at the last annual meeting, Louisville, Ky., I would embrace the present opportunity of thanking you for the honor you have conferred upon me, in selecting me to preside over your deliberations. Any errors I may commit, I hope you may attribute to the right source—the head, and not the heart.

Bee-keeping, although not so popular a pursuit as many others, is none the less edifying and profitable. The honey bee is almost the only insect that has been domesticated by man, and aside from its giving us wealth and a delicious luxury, it possesses many charms, and is a study for the naturalist. This is only the fourth session of a continental society in our land for the purpose of investigating and learning of the wonders of this little insect.

For ages past, organizations have been effected by our best men to develop the various agricultural resources of the land. And during the same period the most industrious bees of our continent have been consigned to the ignominy of a death by fire and brimstone.

If apiarians had given the time and attention in selecting the males and females of the largest and most industrious, prolific and docile colonies to breed from, with the same care, shrewdness and attention that has been practised with horses, cattle, sheep, hogs and poultry, we would not be under the necessity of importing queens from Italy, but would have a race of bees much superior to the Italians. Man can not obtain labor from any other source as cheap as from the honey-bee. They work for nothing and board themselves, only requiring house rent free.

According to the census returns of 1850 the amount of wax and honey produced in the United States was 14,853,790 pounds; in 1860, 126,386,855 pounds. With the increased attention given to the pursuit, together with the increase of colonies, we have no doubt but the present returns will show a vast increase of product.

Possessing, as we do in America, a genial climate and a fertile soil, susceptible of the production of richly varied honey-producing plants and flowers, with a due degree of knowledge and enterprise, the bees could be increased to an extent that the profit arising therefrom would pay all our taxes and supply our tables daily with one of the choicest luxuries of life.

Many of the best men of our land are now employed in acquiring practical knowledge of the nature and habits of the honey-bee. The science is advancing steadily, and the future is big with developments in apiarian pursuits.

The reading of the minutes of the last session was dispensed with. They having been published.

REPORT OF THE BUSINESS COMMITTEE.

Mr. King, from the temporary business committee appointed at the morning session, submitted the following report:

1. That the election of officers be deferred until to-morrow, to take place at a time to be designated by the Business Committee.
2. That the following topics be discussed at the afternoon session: First—"Advantages of Bee-Keeping." Second—"How is the queen produced from the Worker Egg?" Third—"The Sting of the Honey-Bee." to be introduced by President Hoagland. Fifth—"Adulteration of Honey," to be introduced by a paper from Rev. H. A. King.

The report was adopted.

THE ADVANTAGES OF BEE-KEEPING.

The first topic on the list was taken up, and was introduced by Mrs. E. S. Tupper, of Des Moines, Iowa.

She said she could not imagine why she had been called upon to open the discussion on this topic, unless it was for the reason that females are supposed to be always ready to say something, whether they can talk to the point or not. She then proceeded to state some of the advantages of bee-keeping, and claimed that it was not only profitable, but that the presence of bees in and about orchards and vineyards tended to increase the yields from vines and trees. In support of these Mrs. T., who is a fluent and pleasant speaker, referred to observations made by herself. She also claimed that bee-raising was especially advantageous.

to ladies, who were thus afforded, not only pleasant and profitable occupation, but also gave them out-door work, and thus benefited their general health. She spoke briefly on the question of profit, and claimed that there was no other business which offered such strong inducements to those who wished to make money on small capital.

There was further discussion of the topic, by Messrs. Hoagland, Zimmerman, Chapman, King, Clarke, Anderson, Rush, Pope, Benedict and others.

PRODUCTION OF THE QUEEN-BEE.

Mr. Alfred Chapman opened the discussion of the topic, "How is the queen-bee produced from the worker egg?" He contended that the egg of the queen was the same as that of the worker; that in some cases the larvæ was taken by the bees and put in the queen's cell, and that the drone also was hatched in the queen's cell.

Mr. A. Benedict said that he had this year noticed a drone in a queen's cell, but it was the only one he had ever seen there, and, it was twenty-four days from the egg.

Further discussion followed, which was participated in by Messrs. King, Zimmerman, Chapman and others.

Rev. W. F. Clarke was called upon to deliver an address upon the next topic, and responded as follows:

THE STING OF THE HONEY-BEE.

A painful rather than a pleasing interest attaches to the subject now proposed for discussion. Possibly this may account for the fact that so little is said about it. In most minds it awakens disagreeable memories or unpleasant apprehensions. We incline to be mute on distressing themes. In looking through an agricultural library, one is impressed with the idea that there has been a sort of avoidance of this subject. You can readily find ample details concerning the honey-sac, the pollen basket, the wax works, the wings, the eye, but marvelously little about the sting.

Kirby and Spence, in their excellent treatise on Entomology, devote a paragraph to "insects which attack man from revenge or fear," and remark, "these all belong to the Linnean order, *Hymenoptera*, and the tremendous arms with which they annoy us are two darts, finer than a hair, furnished on their outer side with several barbs, not visible to the naked eye, and each moving in the groove of a strong and often curved sheath, frequently taken for the sting, which, when the darts enter the flesh, usually injects a drop of subtle venom, furnished from a peculiar vessel in which it is secreted, into the wound, occasioning, especially if the darts be not extruded, a considerable tumor, accompanied by very acute pain. Many insects are thus armed and have this power." Prominent among them are mentioned the ichneumon, the spider-wasp, the honey-bee, the wasp and the hornet.

Mr. Quinby has just eight lines on this topic in his valuable work entitled "Mysteries of Bee-Keeping Explained." They are as follows: "The sting of the bee, as it appears to the naked eye, is a tiny in-

strument of war, so small, indeed, that its wound would pass unheeded by all the larger animals, were it not for the poison introduced at the same instant. It has been described as being composed of three parts, a sheath and two darts. Both the darts are furnished with small points or barbs like a fish-hook, that hold it when thrust into the flesh, the bee being compelled to leave it behind."

The only full and scientific account of the bee's sting we have been fortunate enough to find is embodied in a communication to the August, 1870, number of the *American Bee Journal* by J. R. Bledsoe, of Natchez, Mississippi. Four cuts illustrate the appearance of the various parts of this warlike implement, as seen under a powerful microscope. One of them, which shows the point of the sting, is a truly formidable-looking object—a weapon of war well calculated to intimidate an enemy or appal a victim. Mr. Bledsoe was led to this microscopic examination of it from certain peculiarities of experience connected with a sting he received, and it is not surprising, when we look at the terrible pictures drawn by him to find him saying, "I certainly dread bees more now than before my investigation." The pith of Mr. Bledsoe's interesting paper partly condensed, and partly quoted, literally is as follows: He observed in extricating a sting from his person, that a portion of it remained in the wound, and that the part still fixed in the flesh was extremely fine in size; finer, indeed, than the portion removed, and fully as long. It also appeared to be a tube pulled out of the main sting, much in the manner of the working of a telescope. A microscope view showed however, that it was not a perfect tube; neither does it work with telescopic action. The bee's sting is a complex instrument, being composed of three distinct parts, of which the sheath forms one. These three parts join near the edges and form a tube, which, viewed sectionally, has the shape of a triangle, the angles being rounded off. The sheath near its point is narrow, but grows wider towards its base, where it gradually embraces the remaining parts, thereby keeping them in place in their working. Near each edge of the inner or hollow side of the sheath runs a ridge which fits a corresponding groove in each of the outer parts. Near its point, which is rounded rather bluntly, it is armed with two feeble sets of barbs, numbering as many as four in each set. The base of the sting or sheath is large, being broad and somewhat flattened, with an oblong hollow, which constitutes a receptacle for the poison just previous to injection into the wound.

The other two parts constitute the sting proper, and in a sectional view are semi-circular, the upper edge being thicker than the lower ones, and squarer, one of the edges having a projection extending along the under or inner portion of it, thereby forming a rabbet along which the opposite part freely moves. The under or inner edge of each of these parts, tapers down to extreme thinness, while near the termination of the edge, there runs a minute groove which corresponds with the ridge mentioned in the description of the sheath, and along which the parts move freely. Each of these parts proper, tapers down to an exceedingly fine point. Near the point begin the barbs, which, in some stings, number as many as ten, extending along the sting near-

ly one-half its length, and are well defined.

The parts are of a horny consistency, of a deep red color, and transparent; they are also hollow along the greater portion of their length, intended, perhaps, to combine lightness and strength.

The two chief parts of the base of the sting gradually assume a nearly round and tubular form, each terminating beyond the base of the sting within the body of the bee, and having an arm attached to it at right angles, which forms a part of the muscular mechanism by which their movement is effected.

Also, to each of the chief parts, and located in the cavity formed at the base of the sheath, is attached a plano-convex valve, the convexity of which is adapted to the inner side of this receptacle, and they occupy about one half of the space therein. When the sting is in action each of the chief parts are thrust out and withdrawn alternately; so that when working its way into a wound the valves, by their action, force out the poison which fills the cavity and which is received from a sac situated apart from the base of the sting. The poison readily passes along the tube, (which is a continuation of the cavity,) and finds its way into the wounds with great facility, owing to the peculiar formation of the sting.

It often happens that one or both of the chief parts of the sting are left in the wound, when the sheath is withdrawn. These being very minute, are seldom perceived, the person stung congratulating himself at the same time that the sting has been extracted. Additional pain and swelling result from leaving any portion of the sting in the wound.

In common with all the doctors who prescribe for the bee-stung patients, Mr. Bledsoe advises the immediate removal of the sting, but there is a touch of grim irony in the advice, when it is added, "it continues its working motion for several seconds after being torn from the body of the bee, and thereby buries itself so deep as generally to make it impossible to withdraw all of it."

The peculiarity just noticed, probably accounts for the severity of the consequences resulting from bee stings, in certain cases, in which highly sensitive parts of the body are attacked; but in view of the fact that the extremely fine point of the sting is armed with a number of barbs, may it not be questioned whether anything but the outer sheath is ever got out of the wound inflicted by this instrument?

Leaving the scientific paper of Mr. Bledsoe, and indulging in some general remarks, the celerity and force with which the sting is propelled cannot fail to indicate a remarkable endowment. It has been styled a weapon of war, and such it is, always ready and highly formidable. Is any other creature, in proportion to its size, so thoroughly equipped for martial purposes as the bee? It has been remarked that if man were as good a jumper, according to his size, as the flea, he could clear the dome of St. Paul's at a bound. In like manner, if he were armed proportionally as perfectly as the bee, he would be a terrible warrior indeed. The bee itself, if it had human depravity, would be an insect so intolerable that, spite of the sweet honey it brings us, we should be compelled to go in for its extermination.

Fortunately, however, the bee is peacefully disposed. It is armed for the preserva-

tion of peace, and not for the prosecution of war. It maintains "an armed neutrality," and must be stirred up or interfered with in some way, to show sign of menace or threat of attack. The common idea seems to be that the bee resembles the devil, who goeth about seeking whom he may devour. But the foraging excursions of this industrious insect are for other purposes than to find victims to sting. The stings of the bee colony are undoubtedly meant to defend their stores, and if bees were as harmless as flies, very little honey would ever find its way to the market or the table. Hence, the idea of some time or other bringing apiculture to such perfection as to breed a race of stingless bees, is as unwise as it is utopian.

There can be no doubt that fear of being stung is a very great hindrance, probably the greatest, to the extension of bee-keeping. Nor is this at all surprising, when you consider what serious and even fatal consequences result, in some cases, from being stung. It is no mark of wisdom to despise a bee-sting. To do so is to display ignorance, inexperience, or foolhardiness. No person who has been stung in a highly sensitive part of the body, when the poison injected has been peculiarly virulent, will pooh-pooh the affair. One such sting is enough to teach a lesson of caution that will last a life time. The wise course is to look a danger in the face and guard against it. Precaution can easily be taken if the habits of the bee are properly understood. A bee will sting only under two conditions exasperation or pressure. The second of these conditions would almost seem to render stinging involuntary. If you press the body of a dead bee, you will find that the sting will dart forth with astonishing celerity and force. Squeezing a live bee is very much like touching the trigger of a loaded gun at full cock. A discharge is the inevitable and immediate result. There are a few simple rules the observance of which will reduce the danger of being stung to a minimum if not remove it altogether.

1. The first is to completely master the emotion of fear. No person should undertake to handle bees who cannot maintain a perfectly calm, self-possessed, cool and determined bearing, under all circumstances. Bees know by some subtle discernment, whether you are timid or courageous just as a spirited horse knows whether timidity or courage has hold of the reins. A show of fear is pretty sure to exasperate bees. They seem to resent being meddled with by a timid hand.

2. Gentle and quiet movements alone are safe and proper among bees. They are excessively nervous and irritable, and should be treated accordingly. All rough ways, all sudden jars, all hurried motions are to be carefully avoided. Just as you would make everything as pleasant and soothing as possible to a nervous and irritable human being, so should you act among bees. Especially should this rule be observed in opening out a hive, and performing any manipulations on the interior. To insects accustomed to a dark, perfectly quiet habitation, with everything firmly fixed and in a most orderly state, it must be a rude interference at best for a hive to be opened, flooded with sunshine, and put completely out of kilter. If they can reason, they should be made to do it in this wise: "Man is our liege lord, he has a right to control us, he means us no harm, it will be all right." In all but rare

and exceptional cases, they succumb to firm and gentle treatment, and soon form a habit of acquiescence in the bee-keeper's will.

3. It is well to avoid meddling with bees, when from any cause, known or unknown, they are excited. Sometimes it may be necessary to subdue them under such circumstances, but these cases are unfrequent. In any necessary interference with them, choose a time when all is serene, and they are pursuing the even tenor of their way.

4. When, from any unavoidable causes they become exasperated, a steady, decided course is absolutely indispensable. Stand your ground. Have smoke at hand and ply them with it until they become pacified. It is like a controversy with a passionate, self-willed child. If you give in, worse contests will follow, and the hive, like a spoiled child become unmanageable. Now and then a hybrid colony will have an ungovernable temper. If it cannot be subdued, it is better to sentence it to death at the end of the honey season, than to have the nuisance of an untractable stock on hand. Such cases are, however, extremely rare, and are generally the result of bad management. Spoilt bees, like spoilt children, show bad training.

5. The utmost care should be taken never to crush a bee, if it can possibly be avoided. Some bee-keepers are very careless in this respect. With a strong colony numbering thirty or forty thousand, what signifies the loss of two or three bees? Well, the slaughter of a single bee will sometimes infuriate that whole colony. To crush a bee is, as we have seen, to necessitate the thrusting out of the sting and the consequent emission of the poison. No sooner is the odor of that poison detected by the colony than the tone of their music changes from a peaceful hum to a warlike strain, their tails are elevated high in the air, and from every tail the poison odor at once emanates, which rouses and lashes up the war spirit, until the entire army is ready and anxious for the fray.

6. Whatever style of hive is adopted, it should be such as to facilitate operations among bees. The simpler the better, if it only answers all necessary, practical purposes. Complications and nice adjustments are to be avoided as far as possible. A hive easily opened and closed, giving ready facilities of access to all its parts, without much danger of crowding or crushing the bees, is the one best adapted for the purpose, whether it be covered all over with patents, or entirely free from that style of ornament.

7. Precautionary measures in the way of personal defense, and taming the bees, are worthy of adoption by all inexperienced bee-keepers, and by all, however experienced, who know themselves to be obnoxious to bees. Inexperienced bee-keepers are apt to make slips, to have accidents, and to lose presence of mind, so that however anxious they may be and usually are to prove their skill by handling their bees without protection, it is advisable for them to use a bee veil and gloves impervious to stings, for a time at any rate. In regard to the other class of bee-keepers, it is a well known fact that bees, as well as human beings, have their likes and dislikes. There are those who are bee-loved and there are those who are bee-hated. The sense of smell is very acute in bees. By this they are guided in the recognition of the fellow-occupants of their own hive, and in the rejection of the natives of other hives. There is little doubt that it is their keen sense of

smell which leads them to take to certain persons, and to turn against others. The law of affinity which guides these little insects is not well understood, but that there is such a law is indisputable, and we must conform to it. Those bee-keepers are to be envied who are favorites with the busy little workers, and it is these who should feel called to go largely into the business, but those who are bee-hated need not on that account forego the pleasure and profit of keeping bees. They must prosecute bee-keeping under difficulties; but after all, some of the eminent apirians have overcome greater obstacles than the dislike of their bees. Witness Huber, the father of modern bee-keeping, who made such wonderful discoveries in apiculture, and yet was a blind man. The wearing of a veil and gloves is an inconvenience, but it must be submitted to by those who have the misfortune to the objects of dislike to bees. It may be added that the use of smoke as a means subduing bees, will often enable bee-hated persons to handle their hives without protection. Much judgment is needed, however, in the employment of smoke, as an overdose of it, or an injudicious use of it has a tendency to irritate the bees.

8. Finally, a word remains to be said concerning antidotes for bee-stings. It would be a long detail to mention all the remedies that have been suggested by way of curing bee stings. In a general way it may be stated that almost any alkaline application is good, though antidotes do not always have the same effect on all persons. Bee-keepers must judge for themselves, after trial of various remedies, what are most effectual in their several cases. Without having any interest in it except a benevolent interest in the relief of suffering humanity, I strongly recommended the German Bee-Cure advertised by Mr. Hawley, of Utica, N. Y. I can testify, along with many others, that the relief it gives is well nigh instantaneous, not only relieving the pain but preventing the swelling. Of course, like other antidotes, it may not operate alike on all persons, but thus far I have heard of no exception to its curative efficacy. I would suggest whether it might not be well for this Society to take means to have the remedy just named thoroughly tested; for assuredly, if we could say to the public here is an application which will take away all the pain and prevent the swelling from a bee-sting, we should present one of the strongest inducements to embark in bee-keeping that can possibly be held out. Take away the fear of being stung, or provide a perfect antidote, and many would become bee-keepers who now, acting on the principle that "discretion is the better part of valor," give the business "a good letting-alone."

Secretary Pope, of Indianapolis, said he had always been hated by bees, and yet he did not fear them.

The discussion was continued by Messrs. King, Benedict, Chapman and others.

SECURING SWARMS.

This topic was introduced by President Hoagland, who exhibited a wooden box, perforated with holes, and elevated on a pole. This, he said, had been used with great success in securing swarms.

Mrs. Ellen S. Tupper, of Iowa, took

ground against swarming. Greater yields of honey were obtained by the non-swarming system. Swarming could be prevented by the use of the Extractor, by keeping the bees well supplied with empty comb between the brood and the entrance, and in other ways familiar to bee-keepers who use large hives. She could not obtain half as good results from bees that were allowed to swarm.

An address on the "Adulteration of Honey" was expected from Mr. H. A. King, of New York, but that gentleman stated that he had mislaid his manuscript, and would therefore have to defer reading his paper till another session.

BUSINESS FOR THE EVENING SESSION.

The following committee was appointed to prepare business for the evening session: Rev. W. F. Clarke, H. A. King, Mrs. E. S. Tupper, D. L. Brown, A. Chapman, A. Benedict and J. W. Winder.

On motion, adjourned to meet at 7½ o'clock P. M.

EVENING SESSION.

The Association reassembled at half-past seven o'clock, President Hoagland in the chair.

Rev. W. F. Clarke presented the report of the Business Committee, as follows:

1. Queen-raising and drone preservation, and best mode of introducing queens into movable frames and box-hives.
2. Adulteration of honey. To be introduced by a paper from Mr. H. A. King.
3. Moving bees to other localities for wintering, or pasturage, suggested by the question. Would it be practicable and profitable to ship bees in the fall, by boat, from Eastern Ohio, to some point on the Mississippi, in Louisiana, to remain, say, until May, returning by rail in time for clover-bloom?
4. Best method of inducing bees to breed late in the fall. Is it wise to resort to it?
5. Bee-keeping, with the special inquiry, Can bee-keeping, as a business, be successfully prosecuted in a locality producing a large amount of white clover, but no other source except locust and fruit bloom in the spring?
6. Wintering bees under glass.
7. Prevention of honey candying.
8. Suggestions to Business Committee of time and place of next annual meeting.

QUEEN-RAISING AND DRONE-PRESERVATION.

The discussion of the first topic was opened by Mr. Benedict, who was followed by Mrs. Tupper, Messrs. Chapman, Zimmerman, Anderson, and others giving a variety of views upon the subject under consideration.

Mr. King was not present, and the second topic, "Adulteration of honey," upon which he was to deliver an address, was passed over.

MOVING BEES.

The third topic, "Moving bees to other localities for wintering," was taken up.

Rev. Mr. Clark said he could not speak on the subject from personal experience, but he knew that bee-keepers in Europe moved their bees from one locality to another, in order to give them the benefit of favorable climates.

Mr. Chapman said he had no experience in moving bees South in winter. He did not think it would pay.

Mrs. Tupper gave the experience of a friend (Mr. Brown) who bought 1000 hives in Mississippi during last winter. As soon as the summer harvest commenced the bees were brought back to Iowa in good condition.

Mr. Brown said that bees wintered in the South consumed more honey, but they would breed a month earlier. Mr. Mitchell had transferred a lot of bees from the South last spring at a small cost.

Mr. Pope—At a loss of about \$400.

Mr. Benedict said that bees required more honey in the South than in Canada.

Mr. Clark thought that by keeping them in a semi-torpid state during winter they would do better.

Dr. Rush said it was not a good plan to feed bees, as they would consume twice as much honey as they would if permitted to help themselves.

BREEDING IN THE FALL.

The fourth topic was, "Best method of inducing bees to breed in the fall."

Mrs. Tupper recommended the introduction of a new queen in the hive. This was a good method, as applied to her locality (Iowa). There the Italians are so eager to gather honey that they will fill every cell, and the queen has no room for breeding. When fall comes we have all old bees and no young ones. At this stage the combs should be emptied with the Extractor, that the queen might have room for eggs. It would be well to introduce a young queen in the fall, so as to get more brood.

Mr. Chapman said in his experience it was good to exchange old queens for new ones.

Mrs. Tupper, by permission, read a letter from J. P. H. Brown, a prominent bee-keeper, of Augusta, Ga., containing some excellent suggestions in regard to the organization of associations. It was referred to the Business Committee.

Mr. Clarke moved that intervening topics for discussion be passed over, and that the last, "Suggestion to the Business Committee as to time and place of holding the next annual meeting," be taken up. Carried.

Mr. Clarke said that wherever these annual meetings were held the attendance was largely local. It seemed impossible to get a fair representation from all sections. He was in favor of a reconstruc-

tion of the Association, on the basis of branch or auxiliary societies, which branches could annually, or at less frequent periods send representatives to the National Association. For the next annual meeting he was in favor of Chicago.

Dr. Rush said he would withdraw his suggestion of St. Louis, and unite with his friends on Des Moines.

Mrs. Tupper, of Des Moines, said that though she would be glad to welcome the Society to Des Moines, she feared the expense of going there would be too great for most of the members.

After considerable discussion of the subject, the matter was handed over to the Business Committee.

Adjourned till Thursday morning.

SECOND DAY—MORNING SESSION.

The following Publishing Committee was appointed: Mr. Pope, Dr. Rush and Mrs. Tupper.

The report of the Business Committee, giving topics for the morning discussion, was presented, the first being the question of "Adulteration of Honey."

Upon this subject Mr. King, of New York, read a paper, from which we extract the following concerning the effect of adulteration upon the honey producing interests of the country.

"A leading honey merchant of New York, who bought largely of the comb honey of Mr. Harbison's great 100,000 pound honey crop, said (and I have it from his own lips) that he refused to purchase the extracted honey, because he could furnish a better article by making syrup of white sugar and adding to flavor the mixture, one gallon of honey to every seven gallons of this syrup, costing only eight or ten cents per pound. He said if the syrup was heated to the boiling point, so as to dissolve all the particles in the sugar, the mixture would not granulate. Others claim a secret of their own by which they prevent granulation.

"But what will be the effect upon the price and sale of extracted honey when the dealer increases every 1,000 pounds to 8,000 to flood the market? If one-third of the 300,000 pounds referred to be treated in this way 100,000 pounds would be increased to 800,000 pounds, which would no doubt glut the market and greatly reduce the price. But this is not the worst feature in the case. Dealers in New York and Chicago have resorted to the use of glucose as a substitute for sugar syrup, as others have done in the manufacture of golden syrup. Glucose is a liquid which is often made as clear as water, and of about the consistency of honey, though less sweet than even cane sugar.

"Messrs. A. Boyer & Co., whose address is Auberville, per Paris, France, are large manufacturers. Glucose is found in the juice of several kinds of fruit, but it is usually manufactured from starch or dried grapes. But will the evil stop here, or will glucose, which costs from six to eight cents per pound, soon become too expensive, and acids be used in its stead? Then will extracted white-clover honey go begging for purchasers, and even buckwheat honey, though darker, and therefore commanding

a better price, will be of dull sale, as these ingenious dealers can color their mixtures to look like the darkest buckwheat honey."

As to a remedy for the evils complained of, the speaker said:

"Perhaps apiarians will conclude to dispense with the extractor and think to remedy the evil by raising and selling only bad honey or comb honey in the frame. But these dealers have already found a remedy for such a contingency. They now sell most of their—how shall I call it—no, their mixture in glass jars, with one or more narrow strips of honey in the comb, which occupies the little space in the jar, but looks well, and sells the mixture with which the jar is filled.

"I can suggest no remedy but education. We must educate the people, and thus qualify them to judge between a pure and impure article. Apiarians must write on the subject, not simply for their journals, but for the city press, both secular and religious. While earth remains in its present state, evil men, as the Apostle says, shall wax worse and worse, but when Paradise is restored, that land flowing with milk and honey, these honey adulterers shall go into their "own place, and trouble us no more."

Mrs. Tupper stated, after the reading of the paper, that she had frequent letters from Honey Dealers, wishing to purchase clean white comb.

After some further discussion, Messrs. King, Hoagland and A. Benedict were appointed a committee to draft resolutions expressive of the judgment of the association against the practice of adulterating honey.

The next topic of discussion was "Bee-Forage" and was debated at some length. Some of the members expressed themselves as in favor of buckwheat, others white clover. Mr. Hoagland, thought the forest was the great home of the bee. The richer the soil the greater would be the amount of honey extracted from the flower. The discussion as to the value of various flowers for "bee forage" was continued at some length, and was quite interesting. The sunflower, sassafras, the purple aster, and any quantity of flowers had their respective merits as honey plants thoroughly demonstrated.

The third topic reported by the Business Committee was "The wintering of bees under glass." This was discussed at some length, and the experience of different members of the Convention related.

"The best method of preventing honey from candying" was next discussed at some length, after which the Association adjourned till 2 P. M.

AFTERNOON SESSION.

The Society met at two o'clock P. M. The first hour of the session was occupied in the exhibition of patent bee-hives, honey extractors, and some fine specimens of honey.

ELECTION OF OFFICERS.

At the expiration of the hour, the Pres-

ident said that the election of officers had been made the special order for three o'clock to-day.

The Society on motion, went into an election for officers, when the following gentlemen were named for President: W. F. Clarke, H. A. King, Seth Hoagland, Aaron Benedict, Abner J. Pope, J. W. Winder. The balloting resulted in no choice. Mr. King, who had the second highest vote, moved that the President be authorized to cast the vote of the Association for W. F. Clarke of Canada for President. The motion was carried unanimously, and Mr. Clarke was thereupon voted for and elected.

Next in order was the election of a Vice-President from each State and Territory. The following persons were chosen: Pennsylvania, Seth Hoagland; Ohio, A. Benedict; West Virginia, A. Chapman; New York, M. Quinby; Tennessee, M. Benton; Indiana, A. J. Pope; Illinois, F. Grabbe; Iowa, Mrs. Ellen S. Tupper; Ontario, Dr. Thorn. In the States not represented at this meeting, the present Vice Presidents will hold over.

Dr. L. Brown, of Indianapolis, was elected Recording Secretary, and E. S. Hill, of Ohio, Treasurer.

Mr. H. A. King was elected Corresponding Secretary.

The reports of the officers of the Association for the past year were read and approved.

Mrs. Tupper, from the committee appointed to make arrangements for a display at the Centennial in 1877, reported that the committee had arranged for space, &c., at the Exposition, and that everything bid fair for a successful display. On motion, Seth Hoagland was added to the committee.

The Association adjourned till 7 o'clock P. M.

EVENING SESSION.

The Association met at half past seven o'clock, and Mr. Seth Hoagland, the retiring President, delivered his valedictory address, in which he said that he left the chair of presiding officer not in sorrow, but in a joyful mood.

Mr. W. F. Clarke, of Ontario, Canada, President elect, was then introduced, and spoke as follows:

Ladies and Gentlemen of the North American Bee-Keepers' Association:—I thank you very sincerely for the honor you have done me for the second time in electing me to the Presidency of this organization. As the retiring President observed, in the brief remarks which he made, the times are stringent and there have been unusual difficulties in getting up this meeting, and in view of the difficulties which the retiring President has experienced in this respect I hope we shall draw up a resolution at some later stage of our proceedings ex-

pressing our appreciation of his course and our thanks. I am not vain enough to suppose that I owe my elevation to the presidency of this society to my knowledge of apiculture or to my unprecedented success as a bee-keeper. I think I owe my present position to two causes. First, that I have taken an interest in the Society from the outset, and secondly, that I have not had any particular selfish interest in connection with this Society. This Society in its start encountered peculiar difficulties which rendered it rather surprising that it should have weathered them all and come out into smooth open waters, as it has done.

It is true that this is a day of small things in this organization, but we have made considerable progress. We have, I think, escaped the greatest danger that menaced us at the outset—the danger of the Society being made use of for other than broad disinterested purposes. Bee-keeping has made considerable progress during the history of this Society. It has advanced out of what might be called the “slough of patents.” Many lessons have been learned about patents which will never be forgotten.

Every business is likely to be traded upon by King Humbug. P. T. Barnum has said that mankind like to be humbugged. Whether they like it or not, they submit to it.

An educated physician once met a quack and said: “How is it I have so small a practice and you have so large a one?” “Well,” said the quack, “how many people who go down street are really wise people?” “Well,” said the educated physician, “perhaps one in fifty that pass our office are wise people.” “Then,” replied the quack, “you get the one and I get the forty-nine.” [Laughter.]

Whether the same philosophy does not apply to a good deal of the quackery we have had in connection with bee-keeping I leave you to judge. We have some principles pretty well established, which I think ought by this time to be pretty well understood. Leaving the movable comb principle and the air chamber, and one or two other conditions of successful bee-keeping out of sight, the rest is not of much account. Those who like complicated hives with all sorts of fixings, can have them. We know bees are not particular, and will store honey in rough hives properly constructed as well as in the most finely adorned palaces ever constructed. We have learned a good deal about moth traps and other things, and those who have traded in this kind of apiarian Empyrean articles have shrunk away, and our society has done much to consign them to the grave they have chosen. Empyrean patents have been ignored, and this society has done much to spread abroad throughout the land the fundamental principles of apiarian culture. Although the society has not done as much as some hoped for it, it has done much. It has brought bee-keepers together and awakened an interest in the science of apiculture, but what we want in this society is to gather together all the intelligent apiarians of this country and make this a grand institution in the diffusion of a correct knowledge of apiculture. To do this we must find some means of bringing together our best apiarians.

I do not undervalue the influence of this society in the place when it meets from year to year. In all the different cities where its various sessions have been held an interest has unquestionably been awakened. But we want to do good upon a large scale.

This society shall embody the wisdom of all of our apiarians upon the subjects submitted to us. Some measures ought to be taken by which we can accomplish this result than by organizing auxiliaries to this society in every county, State and neighborhood. Pecuniary difficulties operate undoubtedly against our having as full a representation as we should have at the meetings of this society. There are many to whom apiculture is a sort of side business. Some go into it because of the interest they take in the subject. I have never been so situated that I could keep bees with an eye to profit. Yet, I have been well paid for my trouble in the interest in the pursuit. Let an interest be awakened in the minds of the public by lectures and all other legitimate means.

In conclusion, the speaker said the society had a great work before them, and it could be accomplished if they only did their duty. The rubicon had been passed, and this Association had a great future before it, and the speaker could only say that in the position he had been selected to fill, he would, with the assistance of the society, endeavor to promote the interests of apiculture on the North American continent.

RAISING QUEENS.

The first topic of discussion for the evening was then taken up. It was: "The Selection of a Place to Raise Queens."

Mr. A. Chapman had had the subject on his mind for some time, and thought it was worthy of notice.

Mr. Benedict thought the way Queen raising was now carried on was very uncertain, and more attention should be paid to the subject.

The topic was then discussed at considerable length, the details of taking care of queens and managing them as shown by the experience of a large number of persons being given.

Dr. Rush read a recipe, which he had in his possession, to prevent honey from candying and souring.

THE NEXT MEETING.

Mr. King, from the Business Committee, reported in favor of Toledo, Ohio, as the place, and the first Wednesday of December, 1875, as the time for holding the next annual meeting. The report was adopted and the time and place fixed accordingly.

The following committee was appointed to report on the question of breeding pure Queens and stock: Messrs. King, Benedict and Mrs. Tupper.

The Association then adjourned.

FRIDAY MORNING.

A discussion was held on the spring management of bees. This necessarily involved the subject of wintering, it being generally agreed that stocks well wintered, could be brought through the spring with comparative ease. Some advocated cellar wintering, and others out-door wintering, but the importance of having

strong colonies, was admitted on all hands. Warmth, stimulation by feeding, to make them strong early, were considered the chief points of spring management.

The subjects of extra combs and a standard size of frame were discussed together, a paper being read by Mr. King advocating the adoption of a standard frame. After several had spoken on these topics, it was resolved to lay the matter of a standard frame on the table until next annual meeting, then to be taken up at an early part of the session, and that papers be solicited in regard to it.

A paper sent by Mr. A. J. Murray of Memphis, Tenn., was read by Mrs. Tupper. It consisted chiefly of extracts from Purches's work on bees, published some 300 years ago, and was calculated to show that more was known about apiculture by that old author, than is known by many modern bee-keepers.

A communication from J. P. H. Brown of Augusta, Ga., recommending certain experiments in bee-culture to be made under the direction of the Society, was referred to the Business Committee, who reported recommending that such experiments be conducted by individuals rather than by the Society, which report was adopted.

ADULTERATION OF HONEY.

The Committee on Adulteration of Honey presented the following report, which was unanimously adopted:

WHEREAS, It has come to our knowledge that certain honey dealers in New York and Chicago are using large quantities of sugar syrup, and glucose, with which they mix a small quantity of honey and sell the whole for pure honey, thus making 1,000 pounds of honey sell for from 3,000 to 8,000 pounds; and

WHEREAS, We, the North American Bee-Keepers' Society, in annual session assembled, believing that the adulteration of honey can tend only to the ruin of the honey producing interest of the country by overstocking the market, reducing prices, ultimately lessening the consumption, and dishonoring our calling as well as their own; therefore,

Resolved, That we hereby express our unqualified condemnation of the course of these dishonest dealers, and hereby notify them that they must cease to adulterate honey and assure us of the fact, or, for self-protection, we shall be compelled to publish their names and expose them to deserved contempt. The Committee advise honey producers to sell no honey to dealers guilty of adulterating. The Committee recommend the appointment of a Standing Committee authorized to communicate with honey dealers, and take such action as they may deem necessary to carry out the spirit of this resolution.

H. A. KING,
E. S. TUPPER,
HOAGLAND,
BENEDICT,
W. F. CLARKE,
Committee.

The Chairman of the Business Committee

reported the following resolutions which were unanimously adopted:

WHEREAS, This Society has sustained a great loss since its last annual meeting, in the death of the late Dr. Hamlin, of Tennessee, one of its Vice-Presidents; we desire to put on record the high estimation in which the deceased gentleman was deservedly held by his fellow agriculturists for his thorough knowledge of the science and art of bee-keeping; the zealous interest manifested by him in this organization, from its inception up to the time of the annual meeting, showing before his death, at which he worthily presided in the unavoidable absence of the President; and finally for his upright character, urbane manners and kindness of heart. Honor to his memory, and peace to his ashes!

Resolved, That the thanks of this Society be, and are hereby presented to Ex-President Hoagland, for the interest shown by him in the prosperity of this organization, and for his efficient, courteous, and praiseworthy occupancy of the chair.

Resolved, That the thanks of this Society be tendered to the railway companies and hotel keepers, who have encouraged attendance at this meeting by a reduction of their usual rates.

Resolved, That this Society, having received in every city where it has met, the most polite and kind attention from the local press, is pleased to find the members of the fourth estate in Pittsburg not a whit behind the fraternity elsewhere; and for their patient attendance, courteous behaviour and excellent reports of our proceedings, we desire to tender them our best thanks.

Resolved, That any and all of the officers of this Society are hereby authorized to organize auxiliary or branch societies, membership in which shall carry membership in this society; provided always that the membership fee shall be one dollar annually, and that one-half thereof shall be payable into the treasury of this Society.

A communication was read from the firm of Jesse H. Lippincott & Co., of Pittsburgh, claiming to deal in genuine, unadulterated honey, and inviting beekeepers to deal with them.

A standing committee, consisting of Messrs. King, Benedict, and Mrs. Tupper, was appointed to arrange a system of premiums for Italian queens and full colonies, for the next annual meeting.

A committee of local arrangements for next meeting was appointed, consisting of the Secretaries, Messrs. Day, Zimmerman, and Smith.

After some routine business and informal discussion on one or two points not thought necessary to be embodied in the resolutions, the subject of publication of the proceedings of the Society was taken up. The Secretaries could not engage to prepare a report in time for the December Bee Journals, and as Dr. Rush volunteered to furnish an abstract of the discussions in time for the December journals. The Dr.'s generous offer was thankfully accepted, and the Society adjourned to meet in Toledo, O., on the

first Wednesday in December, 1875.

Since the foregoing Report was "in type," we have received another from Dr. Rush, Simpson's Store, Pa. From it we select such portions as was not elaborated in the former Report.

This annual meeting is reported as one of unusual harmony and interest, which must result in good, not only to the members present, but to the bee-keepers at large whom they represent.—T. G. N.

QUEEN REARING, DRONE PRESERVATION AND BEST METHOD OF INTRODUCING QUEENS.

Mr. Benedict—I generally have a hive that holds a half barrel, such a hive keeps a great many drones, though large hives keep drones until late or very cold weather, while small colonies will kill them as soon as the honey season is over if they have a fertile queen. I am generally successful with this kind of a hive and they fly out strong and seem to enjoy themselves and fly finely. Large hives also raise drones two weeks earlier, and they are better ones and more active. To introduce queens, put them right in. I sometimes wait a day and sometimes wait longer. I make no difference between a frame or box hive. I use a drum box, take old queen out and kill her, take essence of cinnamon in my mouth and wet them completely and put the queen in the top of the hive and let her go down among the bees. Sometimes I cage the queen and put her between the frames and leave her twenty-four hours, then I go to liberate her. I see whether the bees are inclined to sting her, and if they are, I shut the hive and go back the next day again, and they generally are all right.

Mr. A. Chapman—I generally introduce same way as Mr. Benedict does; but another way is to put her in a wire cage and put in a cork of comb, not very thick or loosely, cut a comb the size of the hole in the cage and stick it in, they find the queen caged and loose her by eating the end out and liberating her. I never loose one queen in this way.

Mr. Zimmerman—When I introduce her I take her to, and put this comb and honey in the end of the cage and to make it more sure, put in a lot of strange bees at the same time; and thereby disorganize the colony and they are less disposed to kill the queen.

Mr. Chapman—I take a comb of bees from another hive with brood in it, and a strange queen from another and put them together and they do well.

Mrs. Tupper—Queen raising in the most important of all. Each one must understand it well, the way I take is one that any one can follow. Take the best queen you have, a good hive and queen, put her in a good colony in the fall for spring operations, stimulate by feeding early, have them strong in the fall and spring both, also feed in the fall; no difference where, so it seems to come from the outside of the hive. Go to the colony (early in the spring,) take out the queen, put her in another hive, disturb them as little as possible, put in frames in another hive with enough bees to keep them warm, get four frames in another hive, move the hive and put it in the place of the old hive, and if too many leave the old hive change them and continue; in this way you can get ten nuclei, and as soon as it is warm you will have queens. As soon as one comes out, put in another cell and continue this rotation, cage or change queens between ten and two o'clock and you can have from ten to sixteen nuclei all the time without much care. Mark the entrance for queens before they fly.

Mr. Benedict—Those large hives, I would say, which have drones, that they fly early in the day, stop in the drones early, and put in a teaspoonful of honey in the big hive to feed and excite the bees and drones. Open the hive about five o'clock and liberate the drones and young queens and they will come right out and fly finely after all the rest of the drones are done flying.

Mr. Chapman—I keep my hives large and strong, and in the spring of the year take out a few drone combs and put them in two hives that have no other comb in their hives and kill all the drones except those in the two hives. I killed all my drones in this way last spring. Have practiced this for a long time, and my best success has been with large hives to keep drones.

Mr. J. S. Hill—I have introduced queens and have been successful; loose one once in a while. I do not like the method of wintering bees, they do not clean off or the queens either. When you want to change queens catch the old one, put her in a cage, raise the bottom or open the hive, put the old queen in the cage, on the bottom of the hive, and in two days if they are quiet, change the old one for a new one, and put her in the same place, stop the cage with bits of comb, getting your comb from uncapping honey. In two days after, examine to see if she has been liberated, if they have not let her go, then uncage her.

Mr. Benedict—I would have my queen to breed from, in a good strong hive in

the spring and as soon as the weather is warm enough, change her to another good hive and on the 9th day I would cut out the queen cells, get a nucleus hive and put in it frames of honey and brood capped, with a few bees, next day put the nucleus in the place of the old one, have plenty of drones in the old hive.

Mr. Anderson—When I raise queens I do the same way, but when I put my cells in (as soon as they are capped) I put them in a wire cage and leave them an exit.

Mr. R. B. Price—I first catch old queen and kill her and put her in the cage with the new queen and succeed well, keep them in twenty-four hours. As soon as the bees find their queen dead they will readily accept the new one.

Mr. Hill—I generally have bees two weeks before I disturb them after introducing a queen.

Mr. Zimmerman—I have lost queens by being killed after they had been liberated two days. To make doubly sure I would take out the bees and put the queen in, and then let the bees go in slowly and they think it a strange place.

Mr. Sweitzer—I cannot succeed in that way.

Mr. Benedict—Be sure and conquer the bees first, by smoking them well, then kill old queen, put the new one in a cage with comb stopper. In forty-eight hours see if she has been liberated and if not let her be in the cage one week, then pull out the cork and let her go.

Dr. B. W. Rush—I have tried the plan with a comb stopper and have succeeded well.

BEE FORAGE.

Can bee-keeping as a business be successfully practised in a locality producing a large amount of clover, but no other source except locust and fruit bloom in the spring?

Mr. Chapman—I will give an idea how to get honey from clover. I have been a farmer. Take a field in a good state of cultivation, sow it in clover, and when it has fairly covered the ground it will draw a moisture from the surrounding land. I do not plow it, but add more to it; this field will deposit much more evaporation than the surrounding, or poorly cultivated fields.

Mr. Hoagland—I don't think I am prepared to express myself, we cultivate from 20 to 60 acres of buckwheat of the black variety. The gray superceded the black, and then in three years I got the silver quill. Two years ago it produced more than it has since. Sometimes clover is the best for honey and sometimes basswood, but now clover is the honey resource as basswood has failed by being destroyed. I wish to say that buckwheat

is not so exhausting as some think. I had a new field in for 16 years, and an adjoining field only two crops, then sowed with timothy, and clover grew finely. Buckwheat does not exhaust the soil as it draws most of its dampness from the air.

Mr. Benedict—In my locality they do well on clover and locust; the idea I would go on would be to select a locality where it is good to secrete honey. Our honey ceases at the end of clover time, the season lasts about five weeks. Linn is the best that we can cultivate—easily transplanted—I set out a great deal of it last spring, it did well; set out as soon as the frost is out of the ground; blooms last of June with us.

Mr. Zimmerman—I discover in my experience more honey along the rivers, and bees do better on bottom timber. We have clover and basswood. I would recommend that all would cultivate catnip. Basswood is abundant in my grove and I cultivate some of it, it is next to fall flowers. Boneset, golden-rod (three kinds of it), the low sort is the best. Use extractor in summer, and get winter stores from fall flowers, and sometimes when these begin I make three hives of one.

Mr. N. N. Betsinger—Asked if sowing two acres of catnip will pay.

Mr. Zimmerman—I think it will.

Mr. Benedict—I think it will pay better to sow white clover where the ground is moist.

Mr. Betsinger—Two years ago I sowed Alsike, and it came on last June. In passing through the Alsike clover, saw bees swarming on it, (sowed it on low damp ground) while white clover did not do near so well.

Mr. Zimmerman—Which does the best?

Mr. Betsinger—Alsike is my experience.

Mr. Benedict—Bees work equally as well on Alsike as on white clover, think Alsike will secrete more honey.

Mr. Abner J. Pope—I went to the Shenandoah Valley, Va., was there from June 21st to Oct. 30th. I saw "blue thistles" in bloom, and some told me it was their best honey source; some fields were full of it, and was troublesome; in another field by the side of it I saw white clover. Thistle is the best honey source and does not hinder cultivation, it enriches the soil and never fails to produce honey. I also saw it in Maryland.

Mr. Clarke—I would say that there is a Canadian thistle and you are welcome to all of it.

Mr. J. W. Sherif—I notice growing a species of clover, it grows 3 ft. high, and I saw as many as twenty bees on a flower, both black and Italian bees. Blooms last of August.

Mr. John Stevenson—I planted sunflower for ornament and my bees done well on it this summer.

Mr. Rush—I planted plenty of it and never saw a bee on it only for pollen.

Mr. J. Winder—A friend recommended it highly for honey.

Mrs. Tupper—We need a locality which has locust, clover and fruit bloom. This year my bees did well on fruit bloom, but it does not occur one season in ten. We should arrange to have our bees ready for the honey harvest. I would begin to rear brood freely, early. I would give them empty comb in the middle of the hive and get brood in it, and have the hive strong, and may have as high as two bushels of bees; continue to feed and keep the queen going. Everyone should study their locality. When I use empty comb I keep them from swarming.

Mr. Betsinger—What kind of a hive do you use?

Mrs. Tupper—I use a plain box hive with frames 12x12. Alsike clover when sown in a good locality is the best I have, better than white clover.

Mr. King—I think if I should go into the honey gathering again I should look to fall plants, such as golden-rod and aster, the golden-rod is rather yellow but aster is much clearer honey. All through Ohio we don't have much fall blooms, and even east of it.

Mr. Chapman—I am of the opinion of Mrs. Tupper, I can control swarms by giving empty comb.

Mrs. Tupper—Many persons have more fall pasture than they think they have, if they would take the honey out and give them a chance of gathering it.

Mr. Replogle—What is the difference of the same kind of flowers in different localities and same climate?

Mr. Betsinger—Where I am located now in Onondaga Co., N. Y., we have all kinds. I saw basswood so plenty, that if you would shake a tree it would fall in profusion and daub you with honey, it lasted one week each year. Last year I got all my surplus honey from teasel. It is not best to raise over three acres of it, it is a valuable plant, and I would give up bees if I had nothing better than clover.

Mr. J. E. Moore—I think, with me it would pay to keep bees on white clover, near Rochester, Pa. I got 107 lbs. from one hive from May 20th to July 4th.

WINTERING BEES.

Mr. Benedict—I have a plan better than glass. I have a box made square to put on top of my hives and the bees go up in the top of my hive to fly and fall back on the frames, have a quilt over the frames

the box a foot high, when feeding it is necessary for bees to fly and discharge their foci.

Mr. Zimmerman—My experience at Cleveland, Ohio, was, put the bees in a room and place a mosquito-bar between them and the window, so as to keep them from the glass, give them light in the room by the window and they cool off, fall down and go back, do not put them in until after a cold spell in March, and then take them in a room and feed them up. I intend to continue the experiments, the one made was in 1873.

Mr. Benedict—I can feed my bees by taking them in a room.

Mr. D. L. Browne—How many times have you tried the experiment? we never put them in winter quarters or even in a room.

Mr. Benedict—I think it a good plan, I have had bees cured of the disease in that way, received them when they had the disease mildly and they recovered, and came out in good condition from the room. I can fly a good many in that way, if the weather is cold for a long time, I bring them in for a flight.

Mr. Stetsers—Will your bees keep quiet.

Mr. Benedict—When you put them in they will take their flight and fall down (in the top of the hive) and crawl back and do not seem to be much uneasy.

Mr. J. W. Parker, Chicago—A friend keeps his bees in a room, well warmed and ventilated, and they consume a good deal of honey and he expects to lose money.

Mr. Rush—Mr. Benedict, what do you cover hives with, what you put on your hive to give them a flight?

Mr. Benedict—I cover the boxes with screen wire.

Mr. Rush—If you put on glass they will fret too much, and if you put on wire its too cool and besides they will worry to much to get out. I put on a good article of muslin (brown) and they have plenty of light and cannot see out and thus save them so much uneasiness to get out.

Mr. Zimmerman—My mosquito-bar keeps the bees from coming in contact with the glass.

Mr. Rush—It's too open and they see out too much.

Mr. Harrison—Mr. Benedict; will not the bees fall down and get daubed on the frames?

Mr. Benedict—A few times it may occur, when I let them fly in February they don't daub themselves, but in some days in March they will daub themselves some, I let my room cool off gradually, to induce them to go back. I have fed up my bees in the fall, fed on white sugar syrup.

Mrs. Tupper—I don't want the idea that we are to winter bees this way, but must feed up in the fall and you have no more trouble, this talk is only applicable to weak colonies which have been neglected.

PREVENTION OF HONEY CANDYING.

Mr. Pope—I took honey out and put it in a cold place and it would candy, bring it back and it would become fluid again. Keep it in a warm, dry, dark place and it will keep a long time.

Mr. Chapman—That is my experience.

Mr. McLane—What causes honey to become thin.

Mr. Clarke—Souring or ferment causes it to become thin.

Mr. Betsinger—My experience in keeping comb honey is this. I keep it in the cellar and it would get thin and run out. I moved in a thin walled framed house, with tin roof, and when the weather gets cool I build a fire in the room and the honey becomes thicker instead of thinner.

Mr. Zimmerman—I had a few barrels of honey, some were air tight and some not, the one air tight did not candy and the other did.

Mr. Betsinger—A neighbor extracted some honey and bunged it up tight and in two months it was solid.

Mr. Zimmerman—We extracted a barrel of honey, bunged it tight and left it some time, opened it and took out some and it was all right, shut it up and looked in a month and it was solid.

Mr. Betsinger—Will honey air tight, keep longer in the dark than in the light.

Mr. King—I understand that there is a man here who has a receipt for keeping honey, will he make his receipt, and I see he has offered to, in the AMERICAN BEE JOURNAL?

Mr. Rush—I have been experimenting with the receipt and it has succeeded well so far, and as soon as the terms are complied with in the JOURNAL I will let up.

Mr. King—Some one sitting by me told me to ask for it, but I see the joke comes on me for the queen.

THURSDAY AFTERNOON.

Pres't Hoagland—There will be one hour given to exhibition of articles pertaining to the apiary.

Mr J. E. Moore exhibited his sectional hive.

Mr King exhibited Barker & Dicer's sectional honey box and added a few words on their hives. Also exhibited Mr. Quinby's bee smoker for quieting bees; it works by a bellows.

Mr. J. W. Winder, Cincinnati, Ohio, exhibited his honey extractor No 3 *Queen City* with stationary can, also his No 1 with revolving can, and gave manner of using both.

Mr Hoagland exhibited annual herb called "Blue Thistle," same as Mr. Pope referred to.

Mr. Geo. Hardesty exhibited his "*ne plus ultra*" hive, very empirically and his remarks and hive attracted a good deal of notice, and criticisms were freely offered and the hive condemned because of the unnecessary space between end of frames and hive.

SELECTING QUEEN RAISING LOCALITY.

The advisability of selecting a locality where queens may be raised by a committee appointed for that purpose, and save importation.

Mr. Benedict—There is so much risk in raising queens and so many queens are impure. I believe there are impure bees in Italy, in some localities, but in others they up the standard of purity. I do not like to say much on this subject.

Mr. Browne—I am called on, but cannot say much; will wait to hear from others.

Mr. Hoagland—I think it would be better to appoint a committee to take the matter in charge, and after due consideration report at our next meeting.

Mr. Chapman—I agree with Mr. Hoagland and put it to get the mind of the Convention.

Mrs. Tupper—I imported queens ten years ago by Colvin at a cost of \$50 each. I imported by Dadant and lost heavily. I have imported since through friends and have done better. But I think we have better queens in this country than in Italy. I sent queens to a man in Germany and he replies that they are better than those he gets from Italy. I think there is danger in importing of getting a taint of black stock as they may have mixed some of the Egyptian blood in them. It is like importing cattle and sheep, they have improved so that they are sending them back to where they came from. I have got fine queens from both North and South Italy.

Mr. Chapman—I would earnestly recommend, that in sending queens, you put in comb from the hive from which the queen was taken.

Mrs. Tupper—There is not the least difference to me.

Mr. Chapman—I think they should not take old comb, that is, comb long out of the hive.

Mr. King—There are persons advertising queens of both imported and home bred as breeders of the same, and at the same time do not own a hive of bees. I travelled in Europe and stopped in a German apiary and found no pure stock, and that same man was sending queens to this country. I stopped with another man and found five stocks

of blacks. In Italy I visited another apiary and one that advertised largely in Europe, and had not a pure colony. It is a shame, a burning shame. We ought to issue a diploma to the old queen breeders who have long been successful, and those who have a good locality, the one who has thorough experience, the one who keeps his bees all right. Select a number of queens and raise queens from them; and select queens to rear drones from only. In raising queens, as I pass over my apiary, I find drones just hatching in a comb, and place this comb in a hive which has a young queen in and *vice versa* with the queens. To keep drones in working with my bees one day, late in the summer, I found a hive with no queen, and the drones when drummed out came back in large numbers; and if they are excited they will attract others—throw the bees out, raise the excitement and you will have a fine lot of drones.

Mrs. Tupper—This is a free country and everyone has the liberty of buying where he wishes, and no diploma will control the queen trade.

Mr. Anderson—If our stock continues good we keep it, if not, we turn it off, some queens are more prolific and workers more industrious, and when we find a good producing hive keep them, and if we find them poor, kill the queen; but how to get good drones is the question.

Mr. Clarke—Believe giving diplomas impracticable. Let every one get their own diploma. If this subject is brought up to the right pitch we must pay a good price for queens.

Mr. King—Every one knows that premiums have been paid all over the country. Give premiums to persons for extra queens. I move that a committee of three be appointed to get up resolutions in regard to it. Premium should be given.

Mrs. Tupper—I have attended my State Fair, and it gave high premiums for the best black and Italian queens caged. What did it amount to? They could tell nothing by the queens; they must see their workers. It is the wrong time of the year to handle bees, when the Society meets.

Mr. King—I can tell a good queen anywhere.

Ex-President Hoagland, in the chair.—There are many present who wish to hear Dr. Rush. I understand that he has some means or a recipe for keeping honey or syrup. I am informed that the Dr. has consented to favor us this evening. Will he please to do it now.

Mr. Rush—I have a receipt for keeping syrup from souring or granulating, also to keep honey from souring. I cannot say that it is a certain specific; not at

all, but can truthfully say, that as far as I have experimented with it, it has not failed a single time. I believe it will succeed in a majority of cases. I have given it to Messrs. J. S. Hill and G. W. Zimmerman to be tested, and given them special directions, and if they succeed with it, in a majority of experiments, then I expect pay for it, and will leave each one to be guided by conscientious duty. If it fails I do not want anything for it.

The following is the recipe: "Flavoring Extract of Lemon," "to one gallon of syrup or honey add one teaspoonful of the extract" more may be added with safety. Do not add until syrup or honey is cool. It gives a fine flavor. Stir gently.

BEST METHOD OF SPRINGING BEES.

Mrs. Tupper—Best way to keep bees through spring is to winter them right. One says he went through finely on my plan. I take my bees out of the cellar in the night before I expect them to fly, and about the time I want to commence to stimulate, bring them out quietly. If you take them out on a sunny day, they come out and fly too sudden and many are lost, when it is warm enough I begin to feed and as soon as safe I examine them and generally find brood, also feed rye meal as long as they will take it and as soon as they have plenty of brood, I open the hive and give an empty comb-place in the middle of the hive, keep quilts on hives so as to protect the brood. I would rather have bees out than in a cellar, if not frost proof. But to keep them out doors, set a store box around your hives and fill in with chaff or manure and leave the entrance open. Bees that are in a cellar must not be disturbed at all and left until time for setting out in the spring for when they are disturbed they consume more honey.

Mr. Benedict—Bees consume but little honey from 1st Dec. to 1st of Feb. but after that they consume a good deal, for brood rearing requires much more feed.

Mr. Chapman—I cool my cellar before I go into it to see my bees and do not disturb them, I carry them out in March to fly, and if the weather gets too cold I carry them back. I feed syrup warm and get water from a brook to make syrup with, also feed rye meal.

Mr. Betsinger—Let your bees be quiet in their winter quarters. I have had experience in feeding syrup, and find comb honey the best to winter on. I winter on summer stands, I find a cluster of bees 4 inches thick will not freeze. I open a hive on a cold day and out come the bees quite active to meet me. I put a quilt on the frames first. I put on a paper about 1st of April. As soon as warm enough and brood commences, I put

in empty comb in middle of the hive and soon find plenty of brood. I find we must keep them dry.

Mr. King—Read a paper on the coming "Frame."

Mrs. Tupper—I never have any trouble in securing comb when I have plenty of bees, and the weather favorable. Put a frame in the middle of a brood chamber in the night when honey is plenty, sometimes put in 3 in a day. I don't think it pays to build comb, I would not build it for less than \$5.00 per comb, 12x12. I am in for a standard frame and that they be 12x12.

Mr. Benedict—I breed queens for sale and not for honey. I put frames in middle of the hive at night, and have got 3 frames of comb in a day. I attach great importance to a tight fitting frame and have them fit tight on the sides of the hive.

Mr. Rush—I obtained 4 nice frames of comb by feeding syrup just at the close of the honey season. Feed 10 lbs. of sugar, one of sugar to one of water, feed in the evening.

Mrs. Tupper—I tried some 30 times by feeding to get comb and did not succeed but 3 times, and then they would soon cease taking the syrup.

Pres't Clarke—I think square frames good in the north, in the south a shallow one. In Canada we need a deep frame. I have no experience with shallow frames. I find extreme difficulties with light fitting frames in the fall of the year, and I cannot use a Quinby Hive, and it produces a bad temper among the bees, I would give up something else in place of tight fitting frames.

Queen Committee recommends each one to conduct private experiments.

COMMITTEES.

Committee on Arrangements—G. W. Zimmerman, A. Benedict, J. L. Parker.

Publishing—A. J. Pope, W. B. Rush, D. L. Brown.

Centennial—Mrs. Tupper, W. F. Clarke, H.

A. King, Seth Hoagland, J. W. Winder.

Queen raising—Mrs. Tupper, H. A. King, A. Benedict.

Adulteration of Honey—H. A. King, A. Benedict, Seth Hoagland, W. F. Clarke.

What Killed Replogle's Bees?

In the October number of the JOURNAL, I see an inquiry from Mr. Replogle of Indiana, wishing to know the cause of "bees dying at this time of year," (August and September?) I have been watching affected hives closely for three years to ascertain the cause. If Mr. Replogle's bees are affected like mine, and if he has noticed closely he will have observed that

it is only the young bees that are diseased. They crawl out of the hives and die for weeks, until the ground is black with them, making attempts to fly, but not one in a hundred can rise, the very few that do fly have no power to guide themselves, cannot keep a straight course, but zig zag about and fall.

With me, this commenced with my bees in August and continued till towards the last of September. I have satisfied myself that this condition of things is the result of an attempt on the part of the bees to rear more broods than the amount of honey in the hive, or to be obtained in the fields, will support. The brood in the larvæ and chrysalis state, may be said to be put on *short rations*—the short supplies being equally divided among *all*, *none have enough*, and when the brood is old enough to seal, *there is not food enough deposited in the cell to properly mature the bee.* My reasons for believing this are,

1st. That it occurs when the bees are gathering but little honey, and in stocks that have not much honey on hand.

2nd. In a majority of cases the affected hives were such as had been queenless for a time (either by having thrown off a swarm or otherwise) and consequently were more disposed to rear brood largely.

3rd. The affected stocks were invariably black bees, the Italians at the time, being able to gather from red clover were better supplied.

4th. About twenty days from the time the bees commenced gathering honey from the fall flowers, the mortality ceased.

We have in this latitude a honey dearth, from about the 15th of July to about the 5th of September, during which bees gather very little honey. They commenced gathering from the fall bloom this year and last, the 5th of September, as my books show. Bees were gathering honey freely by the 15th of September, but the young bees in my two Black Stocks continued to die. I predicted to my bee friends that they would cease to die after the 26th, it proved to be so, all the eggs had after the 5th of September (the time the bees began to gather supplies) produced healthy bees. Those having bees in a similar condition the coming season, will please notice in regard to the supply of honey, as I did not think of short supplies being the cause of the mortality, until after they were gathering freely, when an examination could not have proved anything, bearing in mind that bees *may* be found dying as described, with honey in the hive, from an unwillingness on the part of the bees to consume their sealed stores largely on brood rearing when gathering

little. I have found it necessary heretofore, to unite with others, stocks affected in this way, being all old bees, they would, sometime in the winter or early spring, show signs of dysentery, (caused by the reduced size of the cluster from the old bees dying) which would disappear after uniting. I thought of writing to the JOURNAL on this subject last September, but supposed old bee-keepers were familiar with what was a new idea to me, and it would be, with my limited experience with bees, like landmen attempting to teach sailors navigation.

Russellville, Tenn.

W. H. Riggs.

For the American Bee Journal.

Death of Doctor L. J. Dallas.

Prominent among those who have done much to advance the apicultural interests of the State, was Dr. L. J. Dallas the subject of this sketch, whose long illness terminated fatally this month (October) in the 63rd year of his age.

Since 1859, when he removed with his family from Ohio to Kansas, his best energies have been given to the development of our young State.

Securing a farm near Baldwin City, he put it under a high state of cultivation, and practiced medicine, also, during the same time. He left the farm in 1864, and moved into town that he might the more successfully prosecute other branches of business.

He was a strong advocate of the cause of temperance; As a physician he ranked high among his professional brethren;

As a friend of education he manifested that same indomitable perseverance, characteristic of the man, that overcomes difficulties which to common minds would have appeared insurmountable.

With the taste for all the embellishments and adornments of civilized life, he made his home a paradise of beauty. With christian fortitude he withstood the storms and contentions of life, which all men like himself, born with positive ideas, have to encounter. With due regard for his family of children, he gave each of them a good education, thus qualifying them for the various responsibilities and duties of life. He was a man of great general information,—a member of the Methodist Church and for a long time one of the trustees of "Baker University" located in the same city where he had his home at the time of his death. He evidently lived with a determination to leave the world better than he found it.

During the 15 years of his residence in this state he kept bees. The last nine years, he lived in Baldwin City and turned his attention largely to this business.

He was a strong advocate of the King hive, though he used, principally a modified form of it, having the hives made larger every way so as to accommodate several tiers of frames. He claimed that such a hive was more profitable with him than the others, as he depended mostly upon the Extractor for honey. At the time of his death he had about 80 colonies—all bright Italians and descendants of queens purchased several years ago of Mrs. Tupper. He was a strong believer in the superiority of the Italians.

His colonies were arranged in his backyard, in the rear of his dwelling in a very pleasing manner, beneath the shade of cherry, peach, apple and other varieties of trees, with paths, walks, and avenues between, reminding one of a miniature city sequestered among shady bowers.

For several years he was a zealous advocate of in-door wintering, and he built a house for that purpose, which was quite roomy, having the sides made double with saw dust filled between. His bee house was ventilated at the top, and he could maintain any degree of temperature that he desired. He also had wire cloth ventilators in the tops of his hives during their stay in-doors. But he did not succeed very well winter before last; many of the combs became mouldy and the bees nearly all manifested signs of dysentery. So last winter he resolved to not house them as heretofore but to try and make them comfortable during the winter on their summer stands. He accordingly procured rough clap-boards, which by using corner posts, he weather-boarded up into boxes, one for each hive and each having a slanting roof. After placing a quilt on the top of the frames and filling in with hay or straw on the top of it and under the cap, he placed one of the large outer coverings around each of his hives and packed between them and the hives with straw or hay, leaving an opening in front, which in severe weather he closed with a bunch of prairie hay, on top of which he placed a rough board with one end of it slanting against the box.

By this plan he claimed that his success was perfect, as his colonies were all vigorous and strong in numbers in the spring, having no signs of dysentery and no mould-combs.

For two years he was President of our State Association and made a very efficient officer.

The last meeting of the Association, at which he was present, he delivered a very able address, in which he gave us a summary of all the modern ideas and improvements and pointed out the relative value of each to apiculture in Kansas.

His energy and enthusiasm infused life into this as well as into every thing to which his attention was directed.

In his death, the Society has lost a friend, and the bee-keepers have lost a wise and experienced counsellor—one who was always wide-awake and progressive in his ideas.

M. A. O'NEIL.

BLACK JACK, Kansas.

For the American Bee Journal.

Toads and Bees.

In this locality (7 miles northeast of Saratoga Springs) it will not do to have the entrance, or alighting board of hives nearer than 9 or 10 in. from the ground, on account of toads. Neither will it do to have a board leaned from the ground to the entrance. Toads are numerous and trouble bees most, early in the summer. Later in the summer, fleas, bugs, and other insects are more numerous, and bees seem to be disturbed less by toads. During the day the toads are quiet under bee-hives or boards, or somewhere out of sight, but in the evening and during the night they are out in force. I have, in the evening, passed in front of hives without a lantern, when the alighting boards were from 4 to 6 inches from the ground and there was from one or two toads at the entrance of nearly every hive catching bees. I have seen them when the hives were raised higher from the ground hop against the edge of the alighting board, and fall back. I have also seen a toad hop up an inclined board to the entrance of a hive, when the entrance was 15 inches from the ground.

Early in the summer, as the weather gets warmer and bees more populous, there are usually bees at the entrance all night. A toad will set on the alighting board and should a bee go within 2 or 3 inches of it the bee will disappear so quickly that it is almost impossible to see what becomes of it. Where toads have access to bees they usually in the morning contain from 2 to 8 bees each, and they do not eat dead bees either.

Cat birds are very attentive around bee-hives in June and July, but I have not proved them guilty of catching bees, or even drones. They are often immature bees, and moth worms.

Saratoga, N. Y.

S. RUGGLES.

It is estimated there are two million bee-hives in the United States. A hive yields on an average a little over 22 lbs. of honey. The average price at which honey is sold is 20 cents a lb., so that the revenue from bees is \$8,800,000.

For the American Bee Journal.
What Shall we Report?

DEAR EDITOR:—Are there not too many that have nothing to report but their failures, after trying to keep the Italian bees pure? A free discussion of all the known causes of past failures as well as the experiences of those who have been successful, we think, in order. Will our learned friend W. M. Kellogg please state the condition those four insignificant black stocks were in at the time his Italian queens became fertile, and by so doing will undoubtedly explain to beginners, for us. He says "one black stock swarmed and the new queen in the old hive mated with a black drone." Was not this stock in precisely the same condition we recommended for beginners to have their Italians in when rearing queens? We are very sure that there were black swarms in the above condition at the time his queens became fertile. We repeat only what we know for the benefit of those that wish to keep pure Italian bees. Allow those stocks to rear queens where your Italian drones are, at a time when there is no black stocks rearing queens in your vicinity if possible and you will not be troubled much with black drones. We are glad W. M. K. has a good opinion of chickens, for we are very fond of them ourselves, but prefer them stuffed. He says they will go up to a cluster of bees and pick out flies and drones by the half hour. What kind of bees has K. got? We are sure flies do not cluster with our bees, and if they did, woe to the chicken that undertook to pick them. By the way, would it not be well for beginners to keep a chicken inside the hive, for protection? I see that some writers find a great deal of fault with C. O. Perrine. I sold him a part of my crop of honey this season and found him a gentleman to deal with. He was the only man I could find in Chicago that would pay cash for honey. He buys at his own price, of course, as there is no competition. Is there not room for another honey dealer in Chicago?

We are aware that some of our queen breeders have recommended Palace hives, with a great number of drones. A barn full of drones would not answer us, though we could open the door and bid them fly when we wished, unless queen rearing was going on in the barn; in which case verily we say your drones know what is up.

Carson City, Mich.

H. M. ROOP.

Length of Flight of Bees.

An Irish paper has the following:—
 "Three men were at work the other day in the neighborhood of Ballingearry, some three or four miles beyond Inchigeela, when suddenly a swarm of bees appeared. The men pursued the swarm, but two of them finding their exertions were of no avail, were unable to continue. The third however, persevered over hills and vales, brakes and brambles, after the runaway insects for the enormous distance of eight miles, until at length they alighted on a heath stalk, convenient to Gougane Barra, on the borders of Kaemaneigh, com-

monly known to the tourist, when their pursuer succeeding in effecting a capture, and brought them home in a hive. This uncommon race was run in less than an hour."

Michigan Bee-Keepers' Association.

The seventh annual session of this Association will be held in Kalamazoo, Mich., on the 16th and 17th of December, 1874. This Association has long been favorably known for the practical character of its proceedings; and arrangements are being perfected which will render the coming session fully equal to its predecessors. Kalamazoo is one of the finest villages in the U. S.—is easily accessible by rail from all portions of the country, while ample arrangements have been made for the free entertainment of all apiculturists in attendance from abroad.

We trust that every Michigan bee-keeper, who takes an interest in improved bee culture, will be present, and endeavor to make the coming session mutually interesting and instructive; while we extend a hearty, cordial invitation to those residing in adjoining States to meet with us.

HERBERT A. BURCH, Sec. *pro tem.*

GOV. CARPENTER'S ENDORSEMENT OF ANDREAS' IOWA STATE ATLAS.

STATE OF IOWA,
 EXECUTIVE DEPARTMENT,
 DES MOINES, OCT. 28, '74.

To whom it may Concern:—I have examined the proof sheets of the Minnesota Illustrated Historical Atlas, by Capt. A. T. Andreas, of Chicago, and I regard it as a work of superior merit, and it seems to me any citizen of Minnesota could hardly do without it. I understand from Mr. E. T. Phelps that Capt. Andreas is now taking the preliminary steps preparatory to publishing a similar Atlas of Iowa, with such improvements as past experience in this business naturally suggests to his mind. Having known Mr. Andreas intimately and well for many years, I have no hesitation in assuring all who may read this that he will do all he proposes, and that the public will find his work fully equal to the promises of his circular and advertisements.

C. C. CARPENTER.

American Bee Journal.

W. F. CLARKE,
MRS. E. S. TUPPER, } EDITORS.

DECEMBER, 1874.

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Seasonable Hints.

This month is peculiarly the season of rest to the bees. Whether housed or on summer stands, they should remain quiet and be undisturbed. No colony in its normal state has either brood or eggs in the combs now, and the queen is small and appears to receive little attention from the bees, even if you stir them up by a light or too great a degree of heat. It is always best to have them in good order before this time and then leave them undisturbed.

Even if you have colonies in a doubtful state no good comes from interference now. Let them take their chances, until a month or two later, and then they may be fed and stimulated. (Of course this advice does not apply to those who are wintering over queens in small boxes or nuclei. If any one are doing this, they no doubt understand how to do it.)

The question whether it was necessary to allow bees a flight in winter was well discussed at the Pittsburgh meeting. Mr. Benedict described a cover made of wire cloth or musquito

netting, with which he covered his hives; and bringing them into a warm room allowed them to fly within it after which they settled back quietly into the cluster.

Mr. Zimmerman also stated that he had treated his colonies in a somewhat similar manner, after they began to be affected with dysentery, and it was effectual.

Though we have no doubt of this, our advice still is, to have bees put away in the dark, where they are comfortable and leave them so.

If for any reason they have been fed or unduly disturbed, so that they feed themselves freely, it will no doubt be well to bring them to a place where they can fly and discharge the fecal matter. But we do not advise beginners to try any experiment, especially in the winter.

During these long evenings, we may all find time to study our business; see where we have failed in the past and plan for the future.

There is nothing in which forethought and care will pay better than in this. Decide how your hives shall be made, and make them. They will cost you much less now than later. Read the JOURNAL and during this holiday season endeavor to procure one new subscriber, if no more, and remit for them while renewing your own subscription.

We mean to improve it, in all possible ways; but you must bear in mind that we can no more do this without money, than the bees can make wax when there is nothing for them to gather. Remember, too, that our income is all made up of small sums; just as the bees pile up their great wealth—little by little.

The article on Bee Prospects, in the last issue, should have been signed S. Porter.

The extreme length of the Report of the Annual Convention has crowded out our "Notes and Queries" and "Voices from among the Hives." They will appear in the January number.

Auxiliary Societies.

Mr. H. A. King, Corresponding Secretary of the North American Bee-Keeper's Society, calls attention in the *National Agriculturist* to a resolution authorizing any of the officers of the association to form local bee-keepers' societies, auxiliary to the North American Bee-Keeper's Society, on condition that the members pay an annual fee of one dollar, half of which shall be paid into the treasury of the National Society.

He says: As Corresponding Secretary of the North American Bee-Keeper's Society for the coming year, it is my duty to solicit correspondence, and render the aid I can in the formation of such auxiliary societies. We know your needs, and shall endeavor to do our part in providing for the same. Some have suggested the advisability of paying \$25 per lecture to some person to travel and form such local societies; but we could not give our vote to have money spent thus lavishly upon any person, even if he had uncommon gifts as a lecturer, for the hard-fisted, honest bee-keepers of the country can be better served by some one of their own number who will volunteer to deliver lectures in and near his county, where bee-keepers are ready to organize, and will pay the lecturer's traveling expenses. We will print a list of names and addresses of lecturers free, and pay them a good cash commission on all the subscribers they obtain for our periodicals, and furnish as many copies of December Magazine, containing Report of North American Bee-Keeper's Society, as may be desired for their use and no doubt friend Newman and other publishers will do the same. Then let us hear from all without delay.

1st. Let all who will volunteer to lecture or talk on bee culture and assist in the organization of local societies, send us their name and address at once, and we will publish them in a list, giving postoffice and county address of each, so that those who wish to organize a local society can have a choice of lecturers and know who lives nearest them. Of course each lecturer will have a right to ask pay for his time, if he choose, when he

has to spend more than half a day to reach the place of meeting; but we cannot agree to publish any lecturers' names in the list without charge, unless he agrees to charge nothing except railroad and hotel expenses, for his services within his or adjoining counties.

2d. Let us hear from bee-keepers who wish to form a local society in their midst, and we will render all the assistance in our power.

H. A. KING.

Of course we will cheerfully do as Mr. King suggests, but we do think some lectures would be cheaper at \$25 than others at one cent. It is quality we need, if anything. If Bee-Keepers want scientific research and practical knowledge embodied in a lecture, it will cost money to obtain it, besides railroad and hotel fare! But few men can afford to give their time for gathering up interesting facts, elaborating personal experience, and delivering lectures, without some remuneration.

We learn that at the Annual Meeting Mr. King intimated that Mr. W. F. Clarke might be prevailed upon to take the lecture field for a few months. Now if this can be done, we think it would be of great advantage in developing apiculture and helping local societies.

There are others, doubtless, who could do good in this line, but we mention Mr. Clarke, because he was spoken of at the meeting in question.

We shall expect to hear from both societies as well as available lecturers in time for our next issue. T.G.N.

Premium for Rearing Queens.

At the late meeting of the North American Bee-Keeper's Society a committee was appointed, consisting of H. A. King, Mrs. E. S. Tupper, and A. Benedict, to make arrangements and offer premiums for best results in rearing choice Italian queens and bees. Mr. King remarks: that the committee expect to offer several first

premiums—one for best nucleus stock with the best colored drones. A first premium (perhaps a gold or silver medal) for best queen and workers, etc., etc. It is not yet determined what premiums to offer, or what entry fee to charge. Some plan must be devised to secure money enough to offer valuable premiums, and the committee ask the advice, assistance and counsel of local and State bee-keepers' societies and all interested before we publish our plans.

Close of the Volume.

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Complete sets of back volumes are scarce. But few can be procured at any price. We have a set, consisting of the nine volumes (complete), which we offer for sale, either bound or unbound, for a reasonable sum. Many of the numbers we have paid fifty cents each for, to complete them.

We have several single volumes (complete) which we will send postpaid for \$2.00 each.

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Beginners in bee-culture, who desire to read up in the literature of bee-keeping, are earnestly advised to obtain these back volumes. Many of our best apiarists say they would not sell their back volumes of the AMERICAN BEE JOURNAL for ten times the sum they cost, if they could not replace them. They are exceedingly valuable alike to beginners and more advanced apiarists.

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WORCESTER'S UNABRIDGED DICTIONARIES for sale at this office, Price, \$10.00 each.

We have received a Postal Order from Sharon, Wis., in an envelope containing nothing else. We do not know from whom it came, nor for what it was intended. Will some one inform us?

When a subscriber sends money in payment for the AMERICAN BEE JOURNAL, he should state to what time he thinks it pays, so that we can compare it with our books, and thus prevent mistakes.

Our Premium Chromo—"Just One."

It is a beautiful design, and one of the finest and richest paintings that has come from the easel of that popular painter, B. S. Hays. The central figure is a beautiful child, (a little girl) who stands by a sideboard loaded with fruits, (apples, peaches, and grapes), one foot is advanced forward, which brings the other on tip-toe.—one hand is grasping the edge of the side-board, and the other reaching up to the basket of grapes; and two plump fingers are in the act of closing upon one large, luscious berry. Her face is turned toward you, and wears a look of commingled mischief, anxiety and entreaty, and you can almost hear her say, "Just One." This picture is a complete story of the child's temptation, and her struggles to resist through her awakening sense of right.

To every new subscriber as well as every old one who renews for next year, before January 1, 1875, we will send, post-paid, a copy of this beautiful Chromo.

Send on your new names and renewals at once and secure it.

Those who have paid for a portion of the year can secure the Chromo, upon sending the balance for the year 1875.

Our New Club Rates.

We will send the AMERICAN BEE JOURNAL and the following periodicals for one year, for the prices named:

THE AMERICAN BEE JOURNAL AND	
Novice's Gleanings.....	\$2.25
King's Bee-Keepers' Magazine...	3.00
Moon's Bee World.....	3.25
All four Bee publications,	5.00
Swine and Poultry Journal,	2.50
The Chicago Weekly Tribune...	3.20
The "Weekly Inter-Ocean.	3.20
The "Weekly Journal.....	3.20
The "Weekly Post and Mail	3.20
The Western Rural.....	3.70
The Young Folks' Monthly.....	3.00

We want several copies of No. 1, Vol. 2, of the AMERICAN BEE JOURNAL, and will pay 50 cents each for them.

Notice to Subscribers.

Among the subscribers to the NATIONAL BEE JOURNAL are some who already take the AMERICAN BEE JOURNAL. We have not time before mailing the August number to revise our lists and ascertain the names of those who take both, and such will for this time receive two copies of the month's issue of the consolidated JOURNAL. We wish to hear from all such. If a little effort is made, we are sure that every one can procure a subscriber who will take the JOURNAL for his or her unexpired time, as an experiment, and pay the money—thus avoiding mailing small sums, while they help us to "trial subscribers." To those who send us a new name in this way we will send the chromo "Just One," from an original painting by B. S. Hays—which is beautiful in design and execution.

Anyone who does not care to make this effort or does not succeed in it, will let us know immediately, and the consolidated JOURNAL will be sent the proper length of time to make the subscription to both, good.

We hope, however, to receive a new name, with an order for the chromo, from every one who now takes both journals.

ELLEN S. TUPPER.

Premium Queens.

Mrs. Tupper authorizes us to say that she will still continue her offer of a tested Italian queen to be sent to anyone who procures four subscribers, and sends the names with \$8. This is a rare chance to procure a good queen at absolutely no cost, except the expenditure of time; and those acting as agents will find it easy to secure names for the consolidated JOURNAL during the approaching season of fairs and expositions. The queen will be sent promptly on receipt of names and money.

Any one ordering a Queen at the time of renewing or subscribing for the JOURNAL, will receive it and the AMERICAN BEE JOURNAL one year for \$6.

To Advertisers.

Since the consolidation of the two American "Bee Journals," advertisers will have the advantage of the united circulation of both papers for the single price of one—thus doubling its value for advertising purposes, at a single cost. We this month give four additional pages, all devoted to advertisements. Notices intended for the next number must reach us by the 20th instant.

We can supply no more full Vols. for this year, and hereafter shall commence all new subscriptions with the July No.

When a subscriber sends money in payment for the AMERICAN BEE JOURNAL, he should state to what time he thinks it pays, so that we can compare it with our books, and thus prevent mistakes.

The postage on this paper is only twelve cents a year, if paid quarterly or yearly in advance at the post-office where received. We prepay postage to Canada, and require twelve cents extra.

AMERICAN SWINE AND POULTRY JOURNAL.—The first number of this excellent monthly is on our table. It is published by C. J. Ward & Co., Cedar Rapids, Iowa, at \$1.25 a year, and is well worth the money; send for sample copy.

A CHOICE OF SIX VOLUMES FOR \$5.—Having a few back volumes complete, and some lacking only one or two numbers each, we will give the purchaser the choice of six of such volumes for \$5.00, until they are disposed of. As only a few can be supplied, those who wish to avail themselves of this offer, should send for them at once.

W. H. FURMAN has withdrawn his advertisement this season, as he does not wish to contend with the low priced Queens now put upon the market. He says he shall devote his apiary to producing honey, instead of Queen raising. Parties wishing good tested Queens at \$5.00 each, can address him at Cedar Rapids, Iowa.



FOR 50 CENTS

we will send **The National Agriculturist**, a large, live, 16 page illustrated family paper, six months on trial, or with large first class chromo **Flowers of Paradise**, 15 1/4 x 21 inches, for \$1.00, and

extend the time six months free to agents sending subscribers, besides large cash commission or premiums. **The Bee-keepers' Magazine**, same terms. Terms to Agents, sent free.

Address, **H. A. KING & CO.,**
aug74m4 75 Barclay St., New York.

BEE STINGS CURED

Without cost. No more pain or swelling. This is a new discovery, and we have just issued a Supplement to the Busy Bee, explaining how the dreaded sting can be made harmless by any one.

The BUSY BEE treats on scientific and practical Bee Culture—Reproduction of bees fully explained, and a new system of management outlined. Every bee-keeper wants a copy.

Busy Bee and supplement containing bee-sting cure, 10 cents post-paid; 7 copies, 50 cents; 15 copies, \$1. Address, **THE BUSY BEE,**
aug74m3 Lavansville, Pa.

UNCAPPING KNIVES, as good as any.

Single knife, 50 cents. Per dozen, \$4.50.
aug3m Address, **C. F. MUTH,** Cincinnati, O.

Pure Italian Queens

From imported and home bred mothers.

Single queen.....\$2.50

Purity and safe arrival guaranteed.

Address, J. S. COLYER,
jul74m2p East Waterford, Juniata Co., Pa.

PARK'S FLORAL GAZETTE.

SUBSCRIBE NOW! The BEST and CHEAPEST floral Monthly published, and the only one devoted exclusively to flowers. Only 50 cents a year. 6th Volume begins July 1st, 1874. 20 pages; elegantly illustrated; neatly printed. Every lady needs it. Club agents wanted! RARE TERMS. Send stamp for sample. Address,
jul74m4 G. W. PARK, Fannettsburg, Pa.

BEE MANAGEMENT.

Price of Quinby's new smoker, \$1.50. For 25 cts. in addition I will send it free by mail. It will be in two parts, and screws will be in place showing where it is to be put together. Send for Circular and price.
jul74tf M. QUINBY,
St. Johnsville, Montgomery Co. N. Y.

100 Agricultural, Mechanical, Chemical, valuable labor-saving **PATENTS** of every description, for sale, with any of which

A FORTUNE

Can easily be made.

PATENTS bought and sold. Special agents wanted in every town.

PATENTS, American and Foreign,

Procured for inventions, designs, trade marks and copyrights.

Rehearings obtained in rejected cases. Infringements prosecuted and defended. Preliminary examinations and searches made. Trade marks patented in Russia.

Correspondence solicited and promptly answered in all matters appertaining to Patent business.

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jul74m6 289 21st. Street, Brooklyn, N. Y.

THE BEST

NORTH and SOUTH LINE IN IOWA.

BURLINGTON, CEDAR RAPIDS AND MINNESOTA RAILWAY.

2 PASSENGER TRAINS EACH WAY DAILY, Except Sunday.

Connecting with trains of the Chicago and South Western Ry. at Columbus Junction, Chicago, R. I. & P. at West Liberty, Chicago & North Western at Cedar Rapids, Illinois Central at Waterloo and Cedar Falls, Milwaukee and St. Paul at Austin, making a direct route to all points in

Northern Iowa and Minnesota.

Miller Couplers and Westinghouse Air Brakes on all passenger trains.

Sleeping Cars on all night trains. Tickets, Time Cards and all information given by Agents of connecting lines.

W. W. WALKER, Wm. GREENE.
Gen'l Sup't. Gen'l Manager.

C. J. IVES, Gen'l Pass. & Ticket Ag't,
jul74m6 Cedar Rapids, Iowa.

BEEES! BEEES!

For Sale in Langstroth hives. Warranted pure Italians; to be delivered early in spring. Prices low. Address, C. F., care of National Bee Journal, Des Moines, Iowa. may74m3

ITALIAN QUEENS FOR 1874

Queens bred from mothers of undoubted purity, and sent purity and safe arrival guaranteed, at the following reduced prices:

Tested Queens.....each,	\$3.00
Ten or more.....each,	2.75
Warranted Queens.....each,	2.00
Ten or more.....each,	1.75

Queens sent as soon as fertile without any guarantee, \$1.00 each. W. D. WRIGHT,
may74m6 Knowersville, Albany Co., N. Y.

ITALIAN QUEENS.

We are prepared to furnish Queens this season from the best Stock in this country. We send out none but tested Queens, warranted pure and prolific. We have a few tested last fall that we will send as early as possible, (last of April or 1st. of May) at \$3 each. These are of special value to those who intend to rear Queens early. After June 1st. one queen, \$5; three, \$12; eight, \$30; thirty, \$100.

Address, ITALIAN BEE CO.,
may74tf Des Moines, Iowa.

CALIFORNIA.

200 STOCKS OF ITALIAN BEES FOR SALE.

THESE Bees are in Harbison's Patent Movable Frame Hives; bred from his stock, and young Queens introduced into each this year. They will be delivered free of charge at the Express office in Sacramento on the 1st of October, and can be moved at that time to any location purchasers may select. Bee-keepers who intend to locate in California will find this a good opportunity to start with healthy stocks in good condition. Terms cash, at the following prices per stock.

Any number under 20.....	\$10.00
over 20.....	9.00

For further information. Address,
julim A. LOVETT, Sacramento, California.

Good News for Bee-Keepers!

Italian Queen Bees at Grange prices.

DO NOT fail to send to the GREAT WESTERN BEE GRANGE and obtain one or more of our pure queens. We will send them by mail—safe arrival and purity guaranteed—one queen for \$2.00, two queens for \$3.75, three queens for \$5.00, when more than three are ordered at one time, we will send them for \$1.50 each. We will also send unwarranted queens for \$1.00 each. Send on your orders and we will do our very best to give entire satisfaction.

Address, W. M. STEELY, Box 131,
may4m California, Montean Co., Missouri.

FOR SALE,

On account of departure for California,

An Apiary of 125 Stocks of Bees,

In Langstroth and Simplicity hives, 30 new empty hives, about 1,000 new empty combs, extractors, &c.

Also an improved farm of 253 acres, prairie and timber, in whole or part to suit; must be seen to be appreciated. A bargain, sure. For further particulars apply to or address, F. H. HARKINS,
aug74m3 Home, Brown Co., Minn.

THE AMERICAN BEE JOURNAL.

Back Volumes.

Complete sets of back volumes are scarce. But few can be procured at any price. We have a set, consisting of the nine volumes (complete), which we offer for sale, either bound or unbound, for a reasonable sum. Many of the numbers we have paid fifty cents each for, to complete them.

We have several single volumes (complete) which we will send postpaid for \$2.00 each.

Several volumes, which lack only a single number of being complete, we will send postpaid for \$1.50 each.

Vol. 1, we can supply in cloth boards, postpaid, for \$1.25. Bound in paper covers, \$1.00, postage 10 cents. This volume is worth five times its price to any intelligent bee-keeper. It contains a full elucidation of scientific bee-keeping, including the best statement extant of the celebrated Dzierzon theory. These articles run through eight numbers, and are from the pen of the Baron of Berlepsch.

Beginners in bee-culture, who desire to read up in the literature of bee-keeping, are earnestly advised to obtain these back volumes. Many of our best apirians say they would not sell their back volumes of the AMERICAN BEE JOURNAL for ten times the sum they cost, if they could not replace them. They are exceedingly valuable alike to beginners and more advanced apirians.

We want several copies of No. 1, Vol. 2, of the AMERICAN BEE JOURNAL, and will pay 50 cents each for them.

It will be a source of gratification to us if all those in arrears for the AMERICAN BEE JOURNAL will settle the same as soon as possible. Our increasing circulation vastly increases our regular monthly expenses for paper and printing. "A word to the wise is sufficient."

When a subscriber sends money in payment for the AMERICAN BEE JOURNAL, he should state to what time he thinks it pays, so that we can compare it with our books, and thus prevent mistakes.

The postage on this paper is only twelve cents a year, if paid quarterly or yearly in advance at the post-office where received. We prepay postage to Canada, and require twelve cents extra.

Let every one writing this office make all Postal Orders, Drafts or Checks, payable to THOMAS G. NEWMAN. Address everything of whatever nature to

THOMAS G. NEWMAN,
CEDAR RAPIDS, IOWA.

Job Printing for Bee-Keepers.

We are now prepared to do all kinds of Job Printing, including Books, Pamphlets, Cards, or Labels for Bee-Keepers, as well as every item of general Job Work. Our terms will be as low as a good job can be done for anywhere, and we can execute any sized job with promptness. We invite bee-keepers everywhere to send us their Job Printing. On all jobs of over \$5, we will pay the express charges, and thus put ourselves in competition with every printing office in the nation.

Bee Literature.

For practical information in cheap readable form, adapted for experienced bee-keepers, as well as beginners, apply to Italian Bee Company, Des Moines, Iowa.

On receipt of 25 cents they send pamphlets of value; and for 50 cents a package containing advice, in best form, for beginners, from bee-keepers in all parts of the world. Specimen copies of the BEE JOURNAL 10 cents—three numbers for 25 cents. Letters of inquiry cheerfully answered on receipt of stamp.

Address, ITALIAN BEE CO.,
Des Moines, Iowa.

WORCESTER'S UNABRIDGED DICTIONARIES for sale at this office, Price, \$10.00 each.

PURE BRED

Calves, Sheep, Premium Berkshire and Chester White Pigs, Bred and for sale by
sept74m4x FRANCIS MORRIS,
Office 18 N. 13th St., Philadelphia, Pa.

AGENTS WANTED

FOR

PROF. FOWLER'S GREAT WORK

On Manhood, Womanhood and their Mutual Inter-Relations; Love, Its Laws, Power, etc. Agents are selling from 15 to 25 copies a day. Send for specimen pages and terms to agents, and see why it sells faster than any other book.

Address, National Publishing Co.,

apr74y1 116 East Randolph St., Chicago, Ills.

Rye Straw Mats

For covering bee hives in winter. Only \$3.00 per dozen. Send at once and prepare to protect the bees. Address, A. N. DRAPER,
sept3m Upper Alton, Ill.

STRAW MATS

\$4.00 per dozen, or 50 cents each.
Catnip Seed gathered last fall from cultivated plants at \$1.00 per oz., or \$12.00 per pound.
Sample Mats, by mail, 65 cents. The exact size of Mat required should be stated.
Address, M. NEVINS,
Sept3m Cheviot, Ohio.

PURE HONEY WANTED.

HIGHEST Market Price will be paid for Comb and Extracted Honey. Address,

S. H. STEVENS,
Wholesale and Retail

DEALER IN HONEY.

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THIRTEEN YEAR'S EXPERIENCE
IN PROPAGATING.

I SHALL Breed direct from Imported Mothers, and guarantee purity and safe arrival to purchasers. The price will be very low. Send for my Circular.

feb74tf WM. W. CARY,
Coleraine, Franklin Co., Mass

A Gem worth Reading!—A Diamond worth Seeing!
SAVE YOUR EYES.

RESTORE your SIGHT,
THROW AWAY YOUR SPECTACLES.

By reading our Illustrated PHYSIOLOGY AND ANATOMY of the EYE-SIGHT. Tells how to Restore Impaired Vision and Overworked Eyes; how to cure Weak, Watery, Inflamed, and Near-Sighted Eyes, and all other Diseases of the Eyes. WASTE NO MORE MONEY BY ADJUSTING HUGE GLASSES ON YOUR NOSE AND DISFIGURING YOUR FACE. Pamphlet of 100 pages Mailed Free. Send your address to us also.



Agents Wanted

Gentlemen or Ladies. \$5 to \$10 a day guaranteed. Full particulars sent free. Write immediately, to

DR. J. BALL & CO., (P. O. Box 957.)

No. 91 Liberty Street, New York City, N. Y.

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Italian Queen Bees!

Full Stock, \$15.00. Tested Queens, \$3.00 each. After July, warranted Queens \$2.50; 3 for \$7.00. 6 in Aug. and Sept., \$12.00. Bred from Imported Stock, sent by mail and satisfaction guaranteed. Eggs from Light Brahma Fowls \$1.50 per dozen.

Address, T. G. MCGAW,
jul74m3 Monmouth, Warren Co., Ill.

THE PEABODY Honey Extractor.

CHEAPEST AND BEST!

A \$15.00 machine and one knife for \$12.00
To Agents, - - - - - 10.00

Agents wanted. Send for illustrated circular to

jul74m3 J. L. PEABODY & CO.,
Normal, Ill

"We speak for those who cannot speak for themselves."



The Humane Journal,

Advocating the prevention of cruelty to Animals, in order to secure healthy food for man and comfort for our Domestic Creatures. Finely Illustrated. One Dollar a year in advance. Send stamp for sample copy.—Address all letters to

THE HUMANE JOURNAL, 275 East Madison St. Chicago.

German Bee-Sting Cure

From time immemorial, since man has coveted the sweet nectar gathered and stored by the busy bee, the bee-keeper has feared the poisonous effects resulting from the sting of the honey bee, while many have been deterred from entering the apicultural arena, not a few have abandoned the pursuit for a like cause, while the world at large are cognizant of the fact that the virus from a single bee-sting has resulted in death to persons who have been stung. With these facts in view it need hardly be stated that the bee keeper has sought by all means in his power to discover a remedy for the sting of a bee.

In the language of a recent editorial of the American Bee Journal, "Any alkali application is good; soda and blue-bags are recommended; a drop of honey, garden soil, spirits of hartshorn, alcohol and tincture of iodine are among the external applications. But, (continues the editor of the American Bee Journal,) we have discarded every other application since becoming acquainted with a German remedy lately introduced. A drop or two will remove all trace and effect of a sting in a very few minutes. It costs but a trifle per bottle, and a single bottle will last a bee-keeper for a life-time."

With such evidence as this, before the reader, we hardly deem it necessary to say one word further in commendation of this remedy. If you would go among your bees without the fear of being stung, use the German Bee Sting Cure. This preparation (impacted to the proprietor by a German friend, used by his ancestors for over an hundred years, and now for the first time prepared by scientific chemists,) after having been fully and thoroughly tested, is introduced to Apirians to supply a want long felt by the fraternity. Its efficacy is thorough and complete when the directions are complied with.

The German Bee Sting Cure is free from all poison, and may be successfully used for all insect bites.

Price \$1.00 per bottle. Sent only by Express.

WM. S. HAWLEY, Proprietor,
116 Miller St., Utica, N. Y.

For Sale also by

D. L. ADAIR, Hawesville, Ky.,

And at the office of the

AMERICAN BEE JOURNAL.

1874 1874 ITALIAN QUEENS.

Thirteen years experience in rearing Italian Queens. One queen sent for \$1.50.

All queens sent by mail, purity and safe arrival guaranteed.

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Italian Queens & Bees

I will sell a few choice Italian Queens at the following prices:

Tested, - - - - - \$5.00

Warranted, - - - - - 2.50

" five or more, each, 2.00

IRVING W. CRAMER,

Oneida, Knox Co., Ill.

PARK'S FLORAL GAZETTE.

SUBSCRIBE NOW! The BEST and CHEAPEST floral Monthly published, and the only one devoted exclusively to flowers. Only 50 cents a year. 6th Volume begins July 1st, 1874. 30 pages; elegantly illustrated; neatly printed. Every lady needs it. Club agents wanted! RARE TERMS. Send stamp for sample. Address,
jul74m4 G. W. PARK, Fannettsburg, Pa.

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On receipt of 25 cents they send pamphlets of value; and for 50 cents a package containing advice, in best form, for beginners, from bee-keepers in all parts of the world. Specimen copies of the BEE JOURNAL 10 cents—three numbers for 25 cents. Letters of inquiry cheerfully answered on receipt of stamp.

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Des Moines, Iowa.

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The postage on this paper is only twelve cents a year, if paid quarterly or yearly in advance at the post-office where received. We prepay postage to Canada, and require twelve cents extra.

WANTED.—A quantity of Lucerne Seed.—Those having it for sale may address,
ITALIAN BEE CO.,
Des Moines, Iowa.

TULIP, LINDEN, and other American forest trees. Send for Catalogue.
novimp A. BATTLES, Girard, Pa.

German Bee-Sting Cure

From time immemorial, since man has coveted the sweet nectar gathered and stored by the busy bee, the bee-keeper has feared the poisonous effects resulting from the sting of the honey bee, while many have been deterred from entering the apicultural arena, not a few have abandoned the pursuit for a like cause, while the world at large are cognizant of the fact that the virus from a single bee-sting has resulted in death to persons who have been stung. With these facts in view it need hardly be stated that the bee keeper has sought by all means in his power to discover a remedy for the sting of a bee.

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Price \$1.00 per bottle. Sent only by Express.

WM. S. HAWLEY, Proprietor,
116 Miller St., Utica, N. Y.

For Sale also by

D. L. ADAIR, Hawesville, Ky.,

And at the office of the

AMERICAN BEE JOURNAL.

Rye Straw Mats

For covering bee hives in winter. Only \$3.00 per dozen. Send at once and prepare to protect the bees. Address, A. N. DRAPER,
sept3m Upper Alton, Ill.

FARM FOR SALE.

THE BEE FARM of Mr. Thomas Hare, situated on the main road between Cedar Rapids and Marion, Linn County, Iowa, $3\frac{1}{2}$ miles from the first place and $1\frac{1}{4}$ miles from the latter, containing 120 acres. The highway makes an even division of the farm into North and South. The 60 acres South is plow and grass land and has an excellent location, being situated between two railroad towns. The 60 acres North is timber excepting about 15 acres, two buildings, garden and orchard. The timber is of good growth, and principally of Ash, Hickory and Oak, and well watered. The buildings are well adapted and commodious and consist of dwelling house, 22x40, two stories, also a wing 15x22, of one story. Stable and barn 45x50, with fifteen feet walls above basement stable. Bee cellar 14x16. A well at the house and barn. This farm, for location and richness of soil cannot be excelled in the county. It will pay a good interest on \$100 per acre and can be bought for much less. Owner desires to go to the Pacific coast. Apply to the owner. Address at Marion or Cedar Rapids, Linn County, Iowa. nov2m

APIARIAN SUPPLIES at bottom prices. Circulars FREE. Address,
A. GRAY & CO., IMPORTERS,
Reily, Butler Co., O.
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The best Bee-Feeder in use. Sample by mail, post paid, 75 cents.

Circular Sent Free

Address, **C. C. VAN DEUSEN,**
Sprout Brook N. Y.

One pound (square) Jars, per gross,	\$6.50
Two " " " "	8.50
Corks, per gross,	.75
Tin Foil Caps, " " " "	1.50
Labels for 1 & 2 lb Jars, " " " "	1.80
" " " " address printed to to order, per thousand,	5.00
One Quart Fruit Jars (Mason's Patent), per gross,	19.00
Labels for 3 lb Jars, per gross,	.65
" " " " address printed to or- der, per thousand,	4.25
One pound pint (white) Glass Jars, per gross,	\$9
Two " " " "	10

Uncapping-knives, Bee-veils, &c.,

At reasonable rates.

For farther particulars address

jan74y1

CHAS. F. MUTH, Cincinnati, Ohio.

FOR SALE OR EXCHANGE.—Farm lands, improved and unimproved, in the following States: Indiana, Illinois, Iowa, Missouri, Tennessee and Virginia. Also, for sale or trade, city property. **W. A. SCHOFIELD**, 8 and 9 Brandon Block, southwest corner Washington and Delaware streets, Indianapolis, Ind.

FOR sale at the office of the AMERICAN BEE JOURNAL. Sent postpaid on receipt of price.

Langstroth on the Hive and Honey Bee.	\$2.00
Quinby's Mysteries of Bee Keeping.....	1.50
Adair's Annals of Bee Culture, 1870.....	.25
The American Bee Keepers' Guide. By E. Kretschmer. Bound in muslin..	1.00
in paper covers.....	.50
Bees and their Management, by Mrs. Tupper...	.15

Address all orders to **T. G. NEWMAN,**
Cedar Rapids, Iowa

Bred on Kelley's Island, in Lake Erie, twelve miles from Mainland.

Completely isolated from other bees. Also.

WITH

Warranted in every respect to give good satisfaction.

My small pamphlet, "**The Honey Bee**," 128 pages, just out. Send for one, Price **50** cents.

For further particulars, Address, with stamp,

AARON BENEDICT.

jan74tf

Bennington, Morrow Co., O.

HIGHEST Market Price will be paid for Comb and
Extracted Honey. Address,

S. H. STEVENS,
Wholesale and Retail

feb74tf

926 North 6th st., St. Louis, Mo.

A Gem worth Reading!—A Diamond worth Seeing!

SAVE YOUR EYES.

**RESTORE your SIGHT,
THROW AWAY YOUR SPECTACLES**

By reading our Illustrated **PHYSIOLOGY AND ANATOMY** of the **EYE-SIGHT**, Tells how to Restore Impaired Vision and Overworked Eyes; how to cure Weak, Watery, Inflamed, and Near-Sighted Eyes, and all other Diseases of the Eyes.

**WASTE NO MORE MONEY BY ADJUSTING
HUGE GLASSES ON YOUR NOSE AND DISTORTING
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Vol. X.

JANUARY, 1874.

No. 1.

THE AMERICAN BEE JOURNAL

ESTABLISHED 1861.

W. F. CLARKE, EDITOR.

BY SAMUEL WAGNER.

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Not one letter in ten thousand is lost by mail if rightly directed.

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The date with each subscriber's name will show the time to which the subscription has been paid, and will constitute a receipt for moneys remitted.

Those who are owing for advertisements for the past year are requested to send the amount to this office without delay, as we are closing up the old Books.

When a subscriber sends money in payment for THE AMERICAN BEE JOURNAL, he should state to what time he thinks it pays, so that we can compare it with our Books, and thus prevent mistakes.

We would call attention to the new advertisement of the CHICAGO HONEY HOUSE appearing in this issue. Parties having honey to sell, will do well to correspond with the above House, now located at 360 Wabash Avenue, Chicago.

The article on "Bee Pasturage," in the December Number was written by Dr. J. F. H. Brown, of Augusta, Ga., for "The Southern Cultivator," and would have been credited to that sheet, had the printers not omitted it, by an oversight.

Every subscriber is requested to look at the date after his name on the wrapper label of this Number of the AMERICAN BEE JOURNAL, and if it is not correct send a Postal Card to this office, and tell us and we will make it right at ONCE.

Baldwin Bros., Who are scientific and practical bee-keepers from Cattaraugus Co., New York, have taken several colonies of pure Italian bees to Missouri, with a view of thoroughly testing the honey producing capacity of that state.

D. P. Lane of Koshkonong, Wis. some time since sent to this office a specimen of a new Honey Plant abounding in his section, and asks the name of it. It is a pretty, aromatic plant, with clusters of white flowers, nicely pressed, and seems to be a species of wild Hyssop.

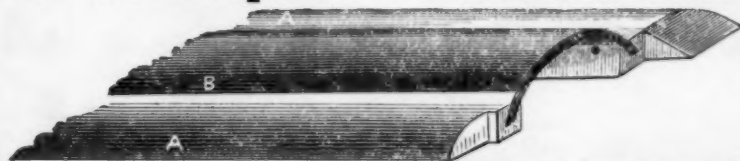
We would call particular attention to an advertisement in this Number, of N. Nevin's Straw Mats. We have a sample Mat in this office, which was made by Charles F. Muth, 976 Central Avenue, Cincinnati, and is identical with those made by Mr. Nevin. It is a good thing.

From Vetch Seed grows the Honey Plant in Germany. It is sown broadcast, like Rape Seed, and at the same time. It grows like Peas and has flowers of all colors. Vetch (Wicken) is used principally as chop feed for horses and cattle. It takes 75 lbs. to the acre, with about 4 lbs. of rape seed. See advertisement of "Honey Plant."

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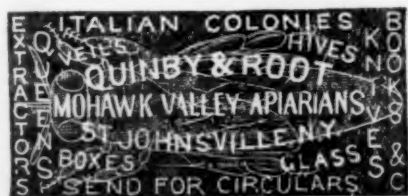
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Vol. X.

FEBRUARY, 1874.

No. 2.

THE AMERICAN BEE JOURNAL

ESTABLISHED 1861

W. F. CLARKE, EDITOR.

BY SAMUEL WAGNER.

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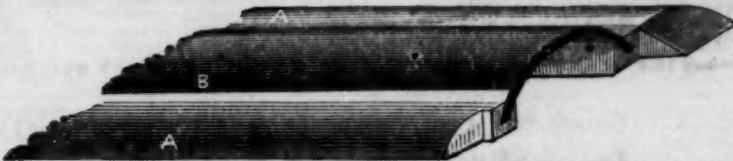
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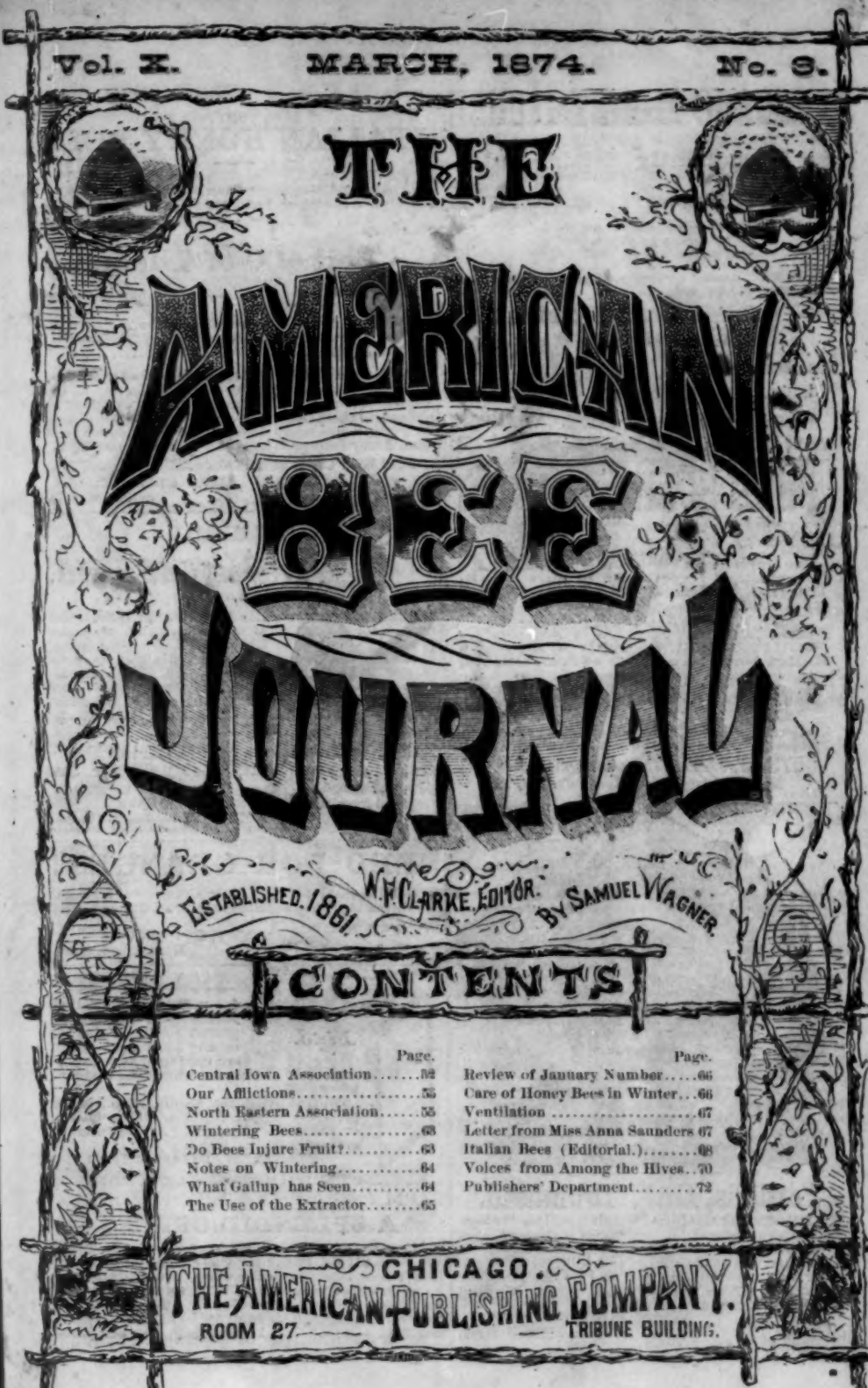
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ESTABLISHED 1861

W. F. CLARKE, EDITOR.

BY SAMUEL WAGNER.

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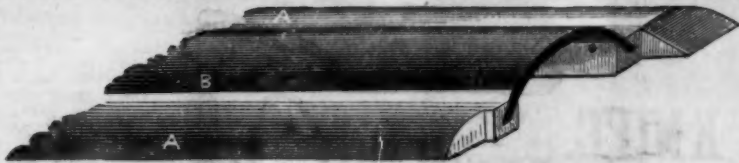
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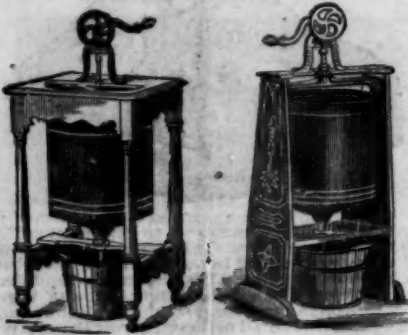
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THE AMERICAN BEE JOURNAL

ESTABLISHED 1861

W. F. CLARKE, EDITOR.

BY SAMUEL WAGNER.

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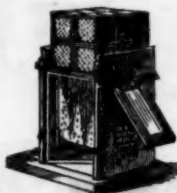
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ESTABLISHED 1861.

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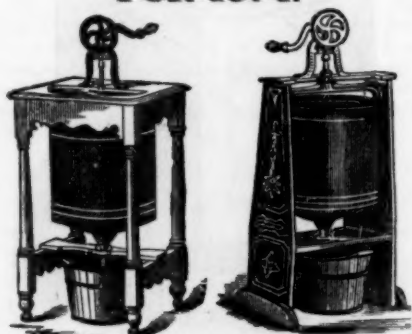
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In the language of a recent editorial of the American Bee Journal, "Any alkali application is good; soda and blue-bags are recommended; a drop of honey, garden soil, spirits of hartshorn, alcohol and tincture of iodine are among the external applications. But, (continues the editor of the American Bee Journal,) we have discarded every other application since becoming acquainted with a German remedy lately introduced. A drop or two will remove all trace and effect of a sting in a very few minutes. It costs but a trifle per bottle, and a single bottle will last a bee-keeper for a life-time."

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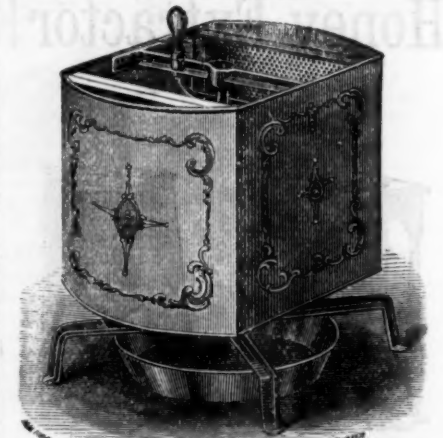
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Vol. X.

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No. 7.

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ESTABLISHED 1861

W. F. CLARKE, EDITOR.

BY SAMUEL WAGNER.

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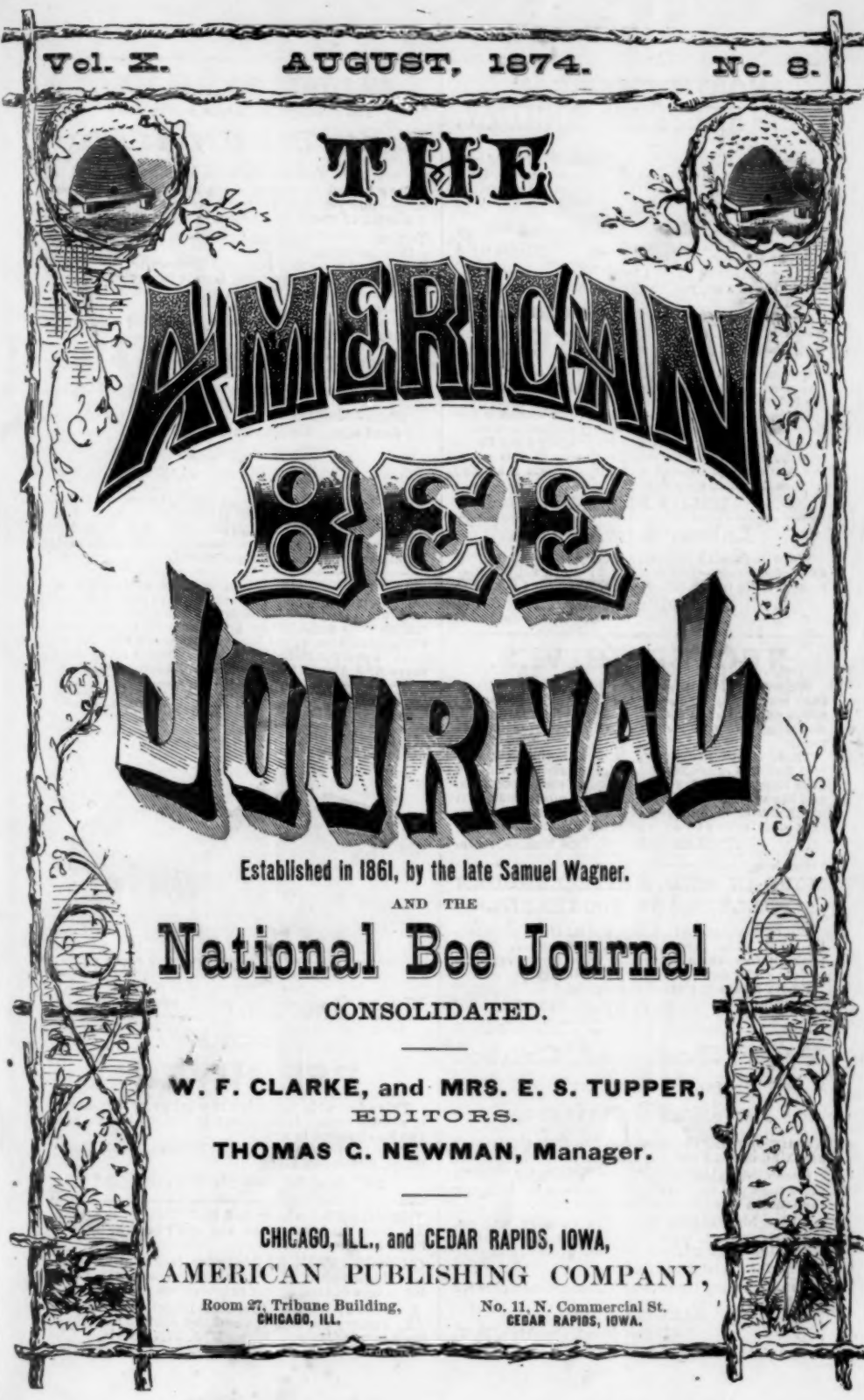
AMERICAN BEE JOURNAL,

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Vol. X.

AUGUST, 1874.

No. 8.



THE AMERICAN BEE JOURNAL

Established in 1861, by the late Samuel Wagner.

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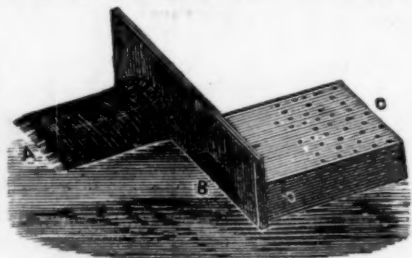
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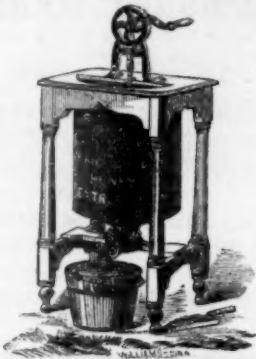
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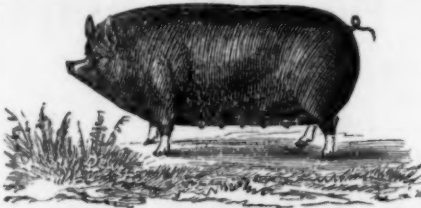
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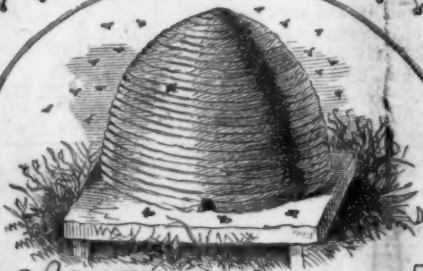
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Vol. V.

No. 8.

NATIONAL BEE JOURNAL



A MONTHLY MAGAZINE
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MRS. ELLEN S. TUPPER,
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AUGUST, 1874.

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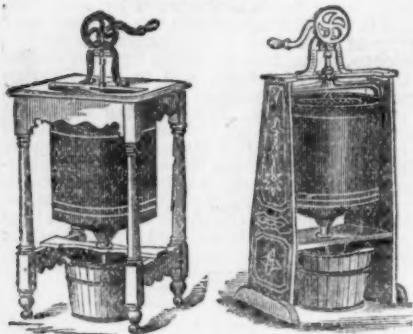
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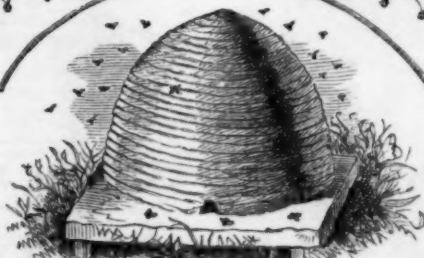
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THE
AMERICAN



BEE JOURNAL



A MONTHLY MAGAZINE
DEVOTED EXCLUSIVELY TO BEE CULTURE.

Established in 1861, by the late Samuel Wagner.

AND

The National Bee Journal,
CONSOLIDATED.

VOL. X.

SEPTEMBER, 1874.

NO. 9.

W. F. CLARKE, and MRS. E. S. TUPPER,
EDITORS.

THOMAS C. NEWMAN, Manager.



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Six " " each,	3.00
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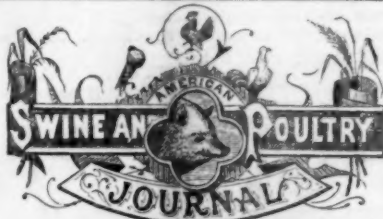
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You can divide a colony in three minutes without their knowing it;

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Winter well on the summer stands in any climate;

Italianize a whole apiary in one season with one Italian colony;

Take half a swarm and set on the parlor table to amuse your bee friends.

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No. 132. TIME TABLE. 1874.

WESTWARD. LEAVE.		Taking Effect May 17.		EASTWARD. ARRIVE.	
No. 3.	No. 1.			No. 2.	No. 4.
7:40 p.m.	7:30 a.m.	Keokuk	4:00 p.m.	4:15 a.m.	
8:58 "	9:05 "	Farmington	2:33 "	2:25 "	
9:38 "	9:55 "	Summit	1:42 "	1:28 "	
10:22 "	10:52 "	Eldon	12:40 "	12:30 "	
11:00 "	11:50 "	Ottumwa	12:00 m.	11:45 "	
11:47 "	12:35 p.m.	Eddyville	10:53 p.m.	9:55 "	
11:50 "	12:40 "	Transfer	10:48 "	9:50 "	
12:10 a.m.	1:00 "	Oskaloosa	10:25 "	9:30 "	
12:55 "	1:45 "	Pella	6:38 "	8:40 "	
2:38 "	3:30 "	Altoona	7:47 "	6:47 "	
3:10 "	7:00 "	Des Moines	7:15 "	6:15 "	
12:00 m.	7:45 "	Grand Junc.	4:00 a.m.	1:00 "	
	10:15 "	Ft. Dodge		10:30 a.m.	
ARRIVE.				LEAVE.	

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A MONTHLY MAGAZINE
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Patented April 15, 1873.

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Chicago, Ill.

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is now permanently established at

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near Broadway, where I am fully prepared to pay cash on delivery of goods.

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CH. DADANT & SON,

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Keokuk & Des Moines Railway.

No. 122. TIME TABLE. 1874.

WESTWARD. LEAVE.		Taking Effect May 17.		EASTWARD. ARRIVE.	
No. 3.	No. 1.			No. 2.	No. 4.
7:40 p.m.	7:30 a.m.	Keokuk	4:00 p.m.	4:15 a.m.	
8:58 "	9:05 "	Farmington	2:33 "	2:25 "	
9:38 "	9:55 "	Summit	1:42 "	1:28 "	
10:22 "	10:52 "	Eldon	12:40 "	12:30 "	
11:00 "	11:50 "	Ottumwa	12:00 m.	11:45 "	
11:47 "	12:35 p.m.	Eddyville	10:53 p.m.	9:55 "	
11:50 "	12:40 "	Transfer	10:48 "	9:50 "	
12:10 a.m.	1:00 "	Oskaloosa	10:25 "	9:30 "	
12:55 "	1:45 "	Pella	6:38 "	8:40 "	
2:38 "	3:30 "	Altoona	7:47 "	6:47 "	
3:10 "	7:00 "	Des Moines	7:15 "	6:15 "	
12:00 m.	7:45 "	Grand Junc.	4:00 a.m.	1:00 "	
	10:13 "	Pt. Dodge	le	10:30 a.m.	
ARRIVE.				LEAVE.	

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Those wishing to secure Italians in the best way will find this rare chance. A little care will, in ten days time, build these up into good stock colonies, and the saving in express charges alone makes it much better than to buy full sized hives. We warrant satisfaction to all who order these small hives.

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AMERICAN BEE JOURNAL.

1874

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I will sell a few choice Italian Queens at the following prices:

Tested,	- - - - -	\$5.00
Warranted,	- - - - -	2.50
"	five or more, each,	2.00

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American Bee Journal

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Mr. H. E. Bidwell's theory of Wintering will appear in our next. It had not arrived, up to the time of our going to press.

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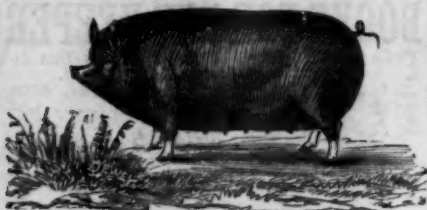
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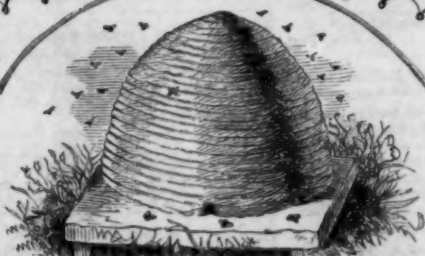
McMinnville, Tenn.



THE
AMERICAN



BEE JOURNAL



A MONTHLY MAGAZINE
DEVOTED EXCLUSIVELY TO BEE CULTURE.

Established in 1861, by the late Samuel Wagner.

AND

The National Bee Journal,
CONSOLIDATED.

VOL. X.

NOVEMBER, 1874.

NO. 11.

W. F. CLARKE, and MRS. E. S. TUPPER,
EDITORS.

THOMAS C. NEWMAN, Manager.



CHICAGO, ILL., and CEDAR RAPIDS, IOWA,
AMERICAN PUBLISHING COMPANY

Room 27, Tribune Building,
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No. 24, Iowa Avenue,
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75 Barclay St., New York.

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Single knife, 50 cents. Per dozen, \$4.50.

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NUCLEUS HIVES.

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jan74y1

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Imported Queens from the best districts in Italy.

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Hamilton, Hancock Co., Ill.

Keokuk & Des Moines Railway.

No. 132. TIME TABLE. 1874.

WESTWARD. LEAVE.		TAKING EFFECT May 17.		EASTWARD. ARRIVE.	
No. 3.	No. 1.	No. 2.	No. 4.		
7:40 p.m.	7:30 a.m.	Keokuk	4:00 p.m.	4:15 a.m.	
8:58 "	9:05 "	Farmington	2:33 "	3:25 "	
9:28 "	9:55 "	Summit	1:42 "	1:28 "	
10:22 "	10:52 "	Eldon	12:40 "	12:30 "	
11:00 "	11:50 "	Ottumwa	12:00 m.	11:45 "	
11:47 "	12:35 p.m.	Eddyville	10:53 p.m.	9:55 "	
11:50 "	12:40 "	Transfer	10:48 "	9:50 "	
12:10 a.m.	1:00 "	Oskaloosa	10:25 "	9:30 "	
12:55 "	1:45 "	Pella	9:38 "	8:40 "	
2:38 "	3:30 "	Altoona	7:47 "	6:47 "	
3:10 "	7:00 "	Des Moines	7:15 "	6:15 "	
12:00 m.	7:45 "	Grand Junc.	4:00 a.m.	1:00 "	
	10:15 "	Ft. Dodge	le	10:30 a.m.	
ARRIVE.		CONNECTIONS.		LEAVE.	

At **Keokuk** with the Toledo, Wabash & Western Railroad; Toledo, Peoria & Warsaw Railroad; Chicago, Burlington & Quincy and Mississippi Valley Western Railways, and the Packets on the Mississippi River.

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100 Agricultural, Mechanical, Chemical, valuable labor-saving **PATENTS** of every description, for sale, with any of which

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OF

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Catnip Seed gathered last fall from cultivated plants at \$1.00 per oz., or \$12.00 per pound.

Sample Mats, by mail, 65 cents. The exact size of Mat required should be stated.

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I will sell a few choice Italian Queens at the following prices:

Tested, - - - - - \$5.00

Warranted, - - - - - 3.50

“ five or more, each, 2.00.

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Curculio = Proof Native Plums

Furnish good fruit in abundance from June to November.

DE CARODENCE, ripens in JUNE.

WILD GOOSE, ripens in JULY & AUG.

NEWMAN, ripens in AUG. and SEPT.

LANGSDON, ripens in OCT. and NOV.

One Tree of Each sent by Express for \$2.25.

The two UTAH DWARF HYBRIDS, (Red and Black,) said to be a cross between the Plum and Cherry, which form small trees 6 or 8 feet high, and produce an abundance fine fruit, 75 cents each.—Scions for grafting, of 12 improved native varieties can be furnished. Address for circular and price-list,

D. L. ADAIR, Hawesville, Ky.

Established in 1865.

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Cor. Lake and Market Streets,

CHICAGO.

☞ Honey bought for Cash. ☞
Jan74tf

Safe Arrival & Purity Guaranteed.

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ITALIAN QUEEN BEES,

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PRICES FOR 1874.

One Queen, tested,	-	-	\$2.50
Six " " each	-	-	8.00
One " warranted,	-	-	2.50
Six and upwards, each	-	-	2.00

All Queens warranted as represented or another one sent as soon as possible.

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10,000 lbs. Extracted.

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For sale from

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Birds for exhibition selected with great care.

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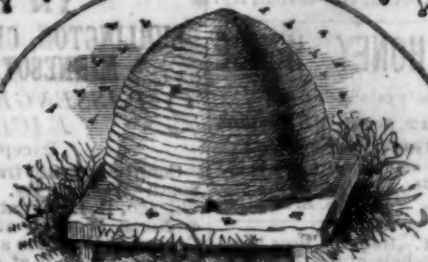
No. 12.

DECEMBER, 1874.



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AMERICAN

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DEVOTED EXCLUSIVELY TO BEE CULTURE.

Established in 1861, by the late Samuel Wagner.

AND

The National Bee Journal,

CONSOLIDATED.



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Jan 74y1

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WANTED.—A quantity of Lucerne Seed.—Those having it for sale may address,
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We will furnish labels for honey jars, containing extracted honey—giving name of store selling it—in neat style for \$3.50 for 500, or \$5.00 for 1,000.

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Honey Markets.

CHICAGO.—Choice white comb honey, 82@30c; fair to good, 24@28c. Extracted, choice white, 14@16c; fair to good, 10@12c; strained, 8@10c.

CINCINNATI.—Quotations from Chas. F. Muth, 976 Central Ave.

Comb honey, 15@35c, according to the condition of the honey and the size of the box or frame. Extracted choice white clover honey, 16c. $\frac{3}{4}$ lb.

ST. LOUIS.—Quotations from W. G. Smith, 419 North Main st.

NEW YORK.—Quotations from E. A. Walker, 135 Oakland st., Greenport, L. I.

White honey in small glass boxes, 35c; dark 15@20c. Strained honey, 8@12c. Cuban honey, \$1.00 $\frac{3}{4}$ gal. St. Domingo, and Mexican, 90@95 $\frac{3}{4}$ gal.

SAN FRANCISCO.—Quotations from Stearns and Smith, 423 Front st.

Strained Southern Coast, at 7@10c; Comb, 12@30c; the latter figure for San Diego, in Harblison frames.

There has been several car loads of honey shipped east, and our market is firm at former quotations. We have had several heavy rains. Our hills are now green, and we have a prospect of early forage for our bees.

Keokuk & Des Moines Railway.

No. 122. TIME TABLE. 1874.

WESTWARD. LEAVE.		Taking Effect May 17.		EASTWARD. ARRIVE.	
No. 3.	No. 1.			No. 2.	No. 4.
7:40 p.m.	7:30 a.m.	Keokuk	4:00 p.m.	4:15 a.m.	
8:58 "	9:05 "	Farmington	2:35 "	2:35 "	
9:38 "	9:55 "	Summit	1:45 "	1:28 "	
10:22 "	10:52 "	Eldon	12:40 "	12:30 "	
11:40 "	11:50 "	Ottumwa	12:00 m.	11:43 "	
11:47 "	12:35 p.m.	Eddyville	10:53 p.m.	9:55 "	
11:50 "	12:40 "	Transfer	10:45 "	9:50 "	
12:10 a.m.	1:00 "	Oskaloosa	10:25 "	9:30 "	
12:55 "	1:45 "	Pella	6:38 "	8:40 "	
2:38 "	3:30 "	Altoona	7:47 "	6:47 "	
3:10 "	7:00 "	Des Moines	7:15 "	6:15 "	
12:00 m.	7:45 "	Grand Junction	4:00 a.m.	1:00 "	
	10:15 "	Ft. Dodge	le	10:30 a.m.	
ARRIVE.				LEAVE.	

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At Keokuk with the Toledo, Wabash & Western Railroad; Toledo, Peoria & Warsaw Railroad; Chicago, Burlington & Quincy and Mississippi Valley Western Railways, and the Packets on the Mississippi River.

At Farmington with the Burlington & Southwestern Railroad. At Eldon with the Chicago, Rock Island and Pacific Railroad, (Southwestern branch.) At Ottumwa with the Burlington and Missouri River Railroad, and St. Louis, Kansas City and Northern Railroad. At Eddyville transfer with the Central Railroad of Iowa. At Des Moines and Altoona with the Chicago, Rock Island and Pacific Railroad. At Des Moines with the Des Moines & Fort Dodge Railroad. At Grand Junction with the Chicago & Northwestern Railroad. At Fort Dodge with the Illinois Central Railroad.

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THE BEE FARM of Mr. Thomas Hare, situated on the main road between Cedar Rapids and Marion, Linn County, Iowa, $\frac{3}{4}$ miles from the first place and $\frac{1}{4}$ miles from the latter, containing 190 acres. The highway makes an even division of the farm into North and South. The 60 acres South is plow and grass land and has an excellent location, being situated between two railroad towns. The 60 acres North is timber excepting about 15 acres, two buildings, garden and orchard. The timber is of good growth, and principally of Ash, Hickory and Oak, and well watered. The buildings are well adapted and commodious and consist of dwelling house, 22x40, two stories, also a wing 15x22, of one story. Stable and barn 45x50, with fifteen feet walls above basement stable. Bee cellar 14x16. A well at the house and barn. This farm, for location and richness of soil cannot be excelled in the county. It will pay a good interest on \$100 per acre and can be bought for much less. Owner desires to go to the Pacific coast. Apply to the owner. Address at Marion or Cedar Rapids, Linn County, Iowa. nov2m



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FINN'S Porous, Double-Walled BEE HIVE,

WITH CHAFF VENTILATOR AND FEED BOX.

Patented May 3, 1870, and April 15, 1873.

The last three winters have firmly established the fact that it WINTERS BEES SAFELY EVERY TIME on their summer stands. It retains the animal heat, and disposes of the moisture without a draft of air. The walls may be applied to any form of hive or frame. Personal Right, \$6.00.

As an inducement for parties to take hold of this very valuable invention, and for the sake of having it introduced as quickly as possible, we will sell the first hive and three personal rights in any township, for \$8.00. Circular of testimonials free. Agents wanted.

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DES MOINES, SEPT. 8, 1874.

My son has been using the Finn Hive for about three years under my observation. It has given perfect satisfaction in all respects, and is never removed from the summer stand for winter protection.

WM. DUANE WILSON.

I have kept bees for 18 years, but on account of loss during the winter, in cellar and outdoors, they seemed to be uncertain property, and I became discouraged and ready to quit. In 1870 I put my remaining colonies in Finn's double-wall hive, and have since had success in wintering on summer stands. B. FULLER, Des Moines.

I am satisfied that it is a safe hive for outdoor wintering. I have used it two years and recommended it to all bee-keepers.

H. B. STONE, Des Moines.

Mrs. Savery, late of the "Italian Bee Company," wrote July 10, 1873:—I have wintered on their summer stands ten colonies in Finn's hive, and found them in the spring in good order. I think it an excellent hive for outdoor wintering.

I am glad to bear testimony to the merits of the Finn Hive. My bees wintered safely in it on outdoor stands while those in other hives all died. G. M. SETTLEMOYER.

I confidently believe that it is the best arrangement I have yet seen for wintering bees on summer stands and protecting young brood during spring. J. M. DORR.

I can feed when and as I please in the Finn Hive. F. J. NELSON.

I have used the Finn Hive three years—left them on their summer stands. All wintered well and were very strong in the spring. ANDREW ANDERSON.

SUPREME COURT CHAMBERS, }
DES MOINES, IOWA. }

I have wintered bees in the Finn Hive, outdoors, three years, with perfect satisfaction. C. C. COLE.

DES MOINES, JULY, 1874.

I have helped Mrs. Tupper ever year since she kept bees, and have been managing the Finn Hive at Mr. Savery's this season. I think it a good hive for wintering bees outdoors, and recommend it to all bee-keepers. HENRY JOHNSON.

I have used it three years. I am satisfied with it and shall continue using it.

JOHN O. CONNOR.

Bloomfield, Polk Co. Iowa, May 6, 1873.

Last fall I had five stands of bees. Have lost all but the one which was in the Finn Hive. This is all right. J. P. FRENCH.

Patent Office, Des Moines, May 6, 1873.

I am familiar with Finn's patents for a double-wall Bee-Hive and a combined Ventilator and Feed-Box. I consider his claims valid and his inventions good. I have tested his hive for out-door wintering, during the last three winters, with good success. THOMAS G. ORWIG, Solicitor of Patents.

Des Moines, Aug. 28, 1874.

I have used Mr. Finn's Porous Hive for the past three years, and have had great success with them, not losing any bees either by freezing or disease. I would not take five times the cost of the right if I had to do without this hive.

JAS. BERNARD WILSON.

In August, 1873, I put what I had left (8 colonies) in the Finn Hive. Since then they have stood on their summer stands and came out in the spring strong, and are ready for early swarming. I would not take five times the cost of the right and do without it. G. W. HICKMAN.

Valley Township, Polk Co., Aug. 23, 1874.

Independence, Iowa, Sep. 2, 1874.

I have used the Finn Hive two years, and it has increased my valuation four hundred dollars. I consider the Finn Hive safe for out-door wintering. A. H. NORTHRUP.

Clear Creek, Jasper Co., Aug. 2, 1874.

Seeing the Finn Hive I gave it a trial. It winters safely, breeds good. I have put my whole stock in it. I can't say enough in its praise. EDWARD OSWALT.

I am well satisfied with two years use of Finn's Double-Walled Hive, and think it the best I have ever seen or used. I heartily recommend it for wintering safely.

A. F. WALLBRIDGE.

Marcellus, Ill., July 31, 1874.

Adelphi, Polk Co., Aug. 24, 1874.

Mr. C. FINN:—I have used your double-walled Bee-Hive for three successive years, and the bees do winter in them every time on their summer stands, if properly made.

JACOB J. KISER.

DES MOINES, MAY 3, 1873.

I have wintered the three past winters on the summer stands in the garden, in the Finn Hive, without loss. J. C. HOWE.

NEW SYSTEM BEE HIVE

A combination of the most valuable features of several patents and inventions, so as to render them the most valuable hives in the market.

BEE-FEEDER AND VENTILATOR.

The cheapest and most perfect acting feeder for feeding water, syrup, honey or meal in the hive from the outside.

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